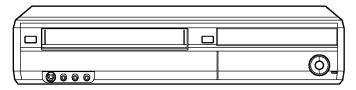
DVD Recorder

Service Manual



Note 1:

This model's DVD Drive is VXY1961.

Note 2:

This model's VHS Mechanism is R4 Mechanism Chassis for North America Model.: Order No. VR0404003C1

Model No. DMR-EZ47VP DMR-EZ475VP

Vol. 1

Colour

(K).....Black Type

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Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

Official DivX® Certified product.

Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files. DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

Page	Page
1 Safety Precaution4	11.5. Analog Timer Block Diagram58
1.1. General guidelines4	11.6. System Control & Servo Block Diagram 59
1.2. Caution for fuse replacement4	12 Schematic Diagram 61
2 Warning 5	12.1. Interconnection Schematic Diagram 61
2.1. Prevention of Electrostatic Discharge (ESD) to	12.2. Power Supply Section (Power & Digital I/F P.C.B.(1/3))
Electrostatic Sensitive (ES) Devices5	Schematic Diagram (P) 63
2.2. Precaution of Laser Diode6	12.3. Digital I/F (1/4) Section (Power & Digital I/F P.C.B.(2/3))
2.3. Service caution based on legal restrictions7	Schematic Diagram (IF)65
3 Service Navigation 8	12.4. Digital I/F (2/4) Section (Power & Digital I/F P.C.B.(2/3))
3.1. Service Information8	Schematic Diagram (IF) 66
3.2. Caution for DivX8	12.5. Digital I/F (3/4) Section (Power & Digital I/F P.C.B.(2/3))
4 Specifications9	Schematic Diagram (IF) 67
5 Location of Controls and Components 10	12.6. Digital I/F (4/4) Section (Power & Digital I/F P.C.B.(2/3))
5.1. Each Buttons 10	Schematic Diagram (IF) 68
6 Operation Instructions 12	12.7. Tuner Section (Power & Digital I/F P.C.B.(3/3)) Schematic
6.1. (DVD) Taking out the Disc from RAM-Drive Unit when the	Diagram (IF) 69
Disc cannot be ejected by OPEN/CLOSE button12	12.8. Video Section (Main P.C.B.(1/4)) Schematic Diagram (V)
6.2. (VHS) Removing Cassette Tape manually14	70
7 Service Mode 16	12.9. VHS Audio Section (Main P.C.B.(2/4)) Schematic Diagram
7.1. (DVD) Self-Diagnosis and Special Mode Setting16	(A) ······ 71
7.2. (VHS) Self-Diagnosis and Special Mode Setting 26	12.10. Syscon/Servo/Timer (1/4) Section (Main P.C.B.(3/4))
8 Service Fixture & Tools 32	Schematic Diagram (S)72
9 Assembling and Disassembling Instructions 33	12.11. Syscon/Servo/Timer (2/4) Section (Main P.C.B.(3/4))
9.1. Disassembly Flow Chart 33	Schematic Diagram (S)73
9.2. P.C.B. Positions 34	12.12. Syscon/Servo/Timer (3/4) Section (Main P.C.B.(3/4))
9.3. Caution with inserting cassette tape when disassembling	Schematic Diagram (S)74
the unit 35	12.13. Syscon/Servo/Timer (4/4) Section (Main P.C.B.(3/4))
9.4. Top cover 36	Schematic Diagram (S)75
9.5. Front Panel 36	12.14. I/O Section (1/4) (Main P.C.B.(4/4)) Schematic Diagram (I)
9.6. Front (L) P.C.B. & Front (R) P.C.B 37	
9.7. DVD drive 39	12.15. I/O Section (2/4) (Main P.C.B.(4/4)) Schematic Diagram (I)
9.8. SD/DV Jack P.C.B 39	
9.9. Rear Panel, Fan Motor40	12.16. I/O Section (3/4) (Main P.C.B.(4/4)) Schematic Diagram (I)
9.10. Digital P.C.B40	
9.11. VHS Mechanism Unit41	12.17. I/O Section (4/4) (Main P.C.B.(4/4)) Schematic Diagram (I)
9.12. Main P.C.B42	80
9.13. Digital I/F P.C.B42	12.18. DV Jack/SD Card Schematic Diagram82
10 Measurements and Adjustments43	12.19. Front (L) Schematic Diagram83
10.1. Service Positions43	12.20. Front (R) Schematic Diagram ······83
10.2. Caution for Replacing Parts47	13 Printed Circuit Board85
10.3. Standard Inspection Specifications after Making Repairs 50	13.1. Power & Digital I/F P.C.B85
11 Block Diagram ·······53	13.2. Main P.C.B90
11.1. Power Supply Block Diagram53	
11.2. Main P.C.B. Regulator Block Diagram54	
11.3. Analog Video Block Diagram55	
11.4. Analog Audio Block Diagram57	14.1. Voltage and Waveform Chart97

	DMR-EZ47VP / DMR-EZ475VP
14.2. Abbreviations ···· 104	15.1. Exploded Views 110
15 Parts and Exploded Views110	15.2. Replacement Parts List114

1 Safety Precaution

1.1. General guidelines

- 1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- 3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage current cold check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1 M \Omega$ and $5.2 M \Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

1.1.2. Leakage current hot check (See Figure 1 .)

- Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.

- 4. Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliampere. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

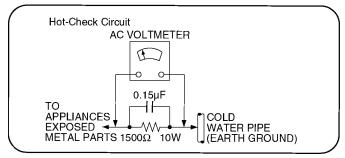


Figure 1

1.2. Caution for fuse replacement

(For English) CAUTION:

Replace with the same type fuse: (Manufacturer: Hollyland, Type:50T, 2A, 250V)

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-sand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

■ IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety.

These parts are marked by \triangle in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

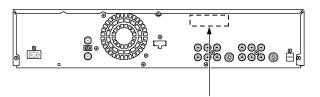
2.2. Precaution of Laser Diode

CAUTION:

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens. Wave length: 662 nm (DVDs)/780 nm (CDs) Maximum output radiation power from pickup: 100 μ W/VDE

Laser radiation from the pickup lens is safety level, but be sure the followings:

- 1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
- 2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
- 3. Do not look at the focus lens using optical instruments.
- 4. Recommend not to look at pickup lens for a long time.



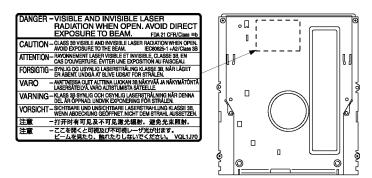
Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture. Matsushita Electric Industrial Co., Ltd. Kadoma, Osaka, Japan

ACHTUNG:

Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Laserinheit abgestrahlt. Wellenlänge: 662 nm (DVDs)/780 nm (CDs) Maximale Strahlungsleistung der Lasereinheit: 100 µ W/VDE

Die Strahlung der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

- 1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
- Den werkseitig justierten Einstellregler der Lasereinheit nicht verstellen.
- 3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken
- 4. Nicht über längere Zeit in die Fokussierlinse blicken.



CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

2.3. Service caution based on legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

Definition of PCB Lead Free Solder being used

e letter of "PbF" is printed either foil side or components side on the PCB using the lead free right figure)	PbF
---	-----

Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used. (Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- · Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

• The following 3 types of lead free solder are available through the service parts route.

RFKZ03D01K-----(0.3mm 100g Reel) RFKZ06D01K-----(0.6mm 100g Reel) RFKZ10D01K-----(1.0mm 100g Reel)

Note

^{*} Ingredient: tin (Sn), 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

3 Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

- 1) This service manual does not contain the following information, because of the impossibility of sevicing at component level.
- * Schematic Diagram, Block Diagram and P.C.B. layout of Digital P.C.B..
- * Parts List for individual parts of Digital P.C.B..
- * Exploded View and Parts List for individual parts of DVD Drive.
- 2) The following category are recycle module part. Please send them to Central Repair Center.
- * Digital P.C.B. (EZ47VP/EZ475VP : RFKB79142DP)
- * DVD-RAM Drive (VXY1961)

3.2. Caution for DivX

Please will always pass the customer "Warning for Customers Who Use the DivX Video-on-Demand content." with the product and get it when you unavoidably exchange Digital P.C.B. (When the product is exchanged, it is the same.).

You must use print attached to service part (Digital P.C.B.) or must use copy of print below as <u>"Warning for Customers who</u> use the DivX Video-on-Demand content."

Information needed without fail for the customer for whom it is used continuing DivX Video-on-Demand Service to "Manual for the customer" is recorded.

Appendix:

- * Parts that memorize user's information are only Nor-Flash on Digital P.C.B..
- * The registration of Registration Code is possible for half a year up to 6 recorders up to 10 recorders a year. Replacement of Digital P.C.B. spends one of this.

Registration Code is memorized in Nor-Flash on Digital P.C.B..

If exchange Digital P.C.B., new registration Code differ from previous Registration Code will be generated.

In this case if your customer uses DivX Video-on-Demand service, he/she will no longer be able to play any content that he/she purchased under that same registration code.

Therefore your customer will need to obtain and register the new registration code.

*Copy this page and cut on the dotted line and give the lower half to your customer.

Warning for Customers who use the DivX Video-on-Demand content.

- 1. The registration code has been changed for the repair of the product or the product exchange.
- 2. Obtain and register a new registration code, otherwise you will no longer be able to play DivX Video-on-Demand content.
- 3. Follow the procedure on the DivX Video-on-Demand web site to register at http://vod.divx.com/
 - * If you do not use the DivX Video-on-Demand content, please ignore this warning.

4 Specifications

Power Supp	ly	AC 120	V, 60 Hz				
Power Consumption		Approx.					
Power Consin standby m			Approx. 2.4 W (Shipping Condition) Approx. 14.0 W (User Setting: Quick Start:ON)				
	Recording system:	DVD-RA DVD-R: DVD-R DVD-RV +R	AM: DVD DVD DL (Dual	Video Re -Video for Layer): D\ -Video for	cording for mat /D-Video fo	mat	
	Optical pick-up:				ation units 'Ds, 780 nn	n for CDs)	
	ріск-ир.	DVD-RA	M: 2x 5	SPEED (V SPEED (SPEED (er. 2.0) (Ver. 2.1)	mor obs)	
		DVD-R	1-4: 1-8:	SPEED (V SPEED (SPEED (SX SPEED	Ver. 2.0)		
		DVD-R	(DL): 2-4:	SPEED (Ver. 3.0)		
	Recordable discs:	DVD-RV	1-2: 2-4:	SPEED (V SPEED (SPEED (SPEED (Ver. 1.1) Ver. 1.2)		
		+R (SL):	2.4: 2.4- 2.4-	SPEED (4x SPEED 8x SPEED	(Ver. 1.0) (Ver. 1.1) (Ver. 1.2)		
		+R (DL)	2.4	SPEED	D (Ver. 1.3 (Ver. 1.0)) (Ver. 1.1)	9)	
DVD		+RW (D	L): 2.4>	SPEED (
	Playable discs:	DVD-RAM: DVD Video Recording format DVD-R: DVD-Video format, DivX DVD-R: DVD-Video format, DivX DVD-RW: DVD-Video format, DVD-W: DVD-Video format, DVD Video Recording format +R +R DL (Double Layer) +RW DVD-Video, CD-Audio (CD-DA),					
	Others:		CD-R/CD-RW (CD-DA, MP3, JPEGt, DivX) Region code : 1				
	Recording time:	Max. 8 hours (using 4.7 GB disc) XP: Approx. 1 hour SP: Approx. 2 hours LP: Approx. 4 hours EP: Approx. 6 hours/8 hours					
	Recording M	Mode	DVD-	RAM 9.4GB (Double Sided)	DVD-R/ DVD-RW/ +R/+RW 4.7GB	DVD-R DL/ +R DL 8.5GB	
	XP High picture recording mo		1 hour	2 hours	1 hour	1 hour 45 minis	
	SP Standard recording mo	de	2 hours	4 hours	2 hours	3 hour 35 minis	
	LP Long recording mo- EP Extra long	de	4 hours 6 hours	8 hours 12 hours	4 hours 6 hours	7 hours 10 minis 10 hours	
	recording mode EP Extra long		8 hours	16 hours		45 minis 14 hours	
LASER Spec.	recording mode Class I LASER Product	Wave L	ower: No	hazardou), 662 nm (s radiation ty protectio	is emitted	
	Recording format:	VHS Vio				ith FM audio	
	Heads:	2 helica	I scan he	ads for vid ads for FM lormal aud	audio		
VHS	Tape speed/ recording time:	EP: 11.	35 mm/s, 12 mm/s, 120 casse	360 min			
	FF/REW time:	FF/REW: Approx. 60 s (with T-120 cassette) Jet REW: Approx. 43 s (with T-120 cassette)					
Television system	TV system: Antenna reception input:	NTSC system, 525 lines, 60 fields Analog TV Channel: 2 ch - 69 ch Analog CATV Channel: 1 ch - 135 ch Digital TV Channel: 2 ch - 69 ch Digital CATV Channel: 1 ch - 135 ch					
	RF converter output:	Provide 3 ch or 4 ch					
		× 1 upports "HDAVI Control 2" function.					

		Recording system : (for DVD) MPEG2 (Hybrid VBR)				
		Input : LINE (pin jack) x 2 1.0 Vp-p; 75 ohm				
		S connector x 2 Y: 1.0 Vp-p; 75 ohm				
		C: 0.286 Vp-p; 75 ohm				
		Output : (for DVD PRIORITY 1) LINE (pin jack) x 2 1.0 Vp-p; 75 ohm				
	Video:	S connector x 1 Y: 1.0 Vp-p; 75 ohm				
		C: 0.286 Vp-p; 75 ohm				
		Component video output : (for DVD PRIORITY) Y,PB,PR x 1 (480i/480p)				
		Y: 1.0 Vp-p; 75 ohm				
		Рв: 0.7 Vp-p; 75 ohm Рв: 0.7 Vp-p; 75 ohm				
		Recording system : (for DVD)				
		Dolby Digital (2 ch)				
DVD / VHS		Analog Input: LINE (pin jack) x 2 Reference input: 309 mVrms				
Common		FS : 2 Vrms (1kHz, 0dB)				
		Input impedance : 22 k ohm				
		Analog Output : (for DVD PRIORITY 1) LINE (pin jack) x 2				
		Reference output : 309 mVrms				
		FS : 2 Vrms (1kHz, 0dB)				
	Audio:	Output impedance : 1 k ohm (Load impedance : 10 k ohm)				
		Number of channels : (for DVD)				
		Recording: 2 channels				
		Playback : 2 channels Number of track (for VHS) :				
		HiFi : 2 track				
		Normal : 1 track				
		Digital Output : (for DVD PRIORITY) Digital audio optical output connector x 1				
		(PCM, Dolby Digital, DTS)				
	•	DVD (DivX), CD (DivX)				
		Plays all versions of DivX video (including DivX 6)				
		with standard playback of DivX media files. Certified to the DivX Home Theater Profile.				
		GMC(Global Motion Compensation) is not supported.				
		DVD (DivX), CD (DivX) Common Items				
		Maximum number of folders: 300 Recognizable folders per disc on this unit				
		(including the root folder)				
		Maximum number of DivX files:				
		200 Recognizable DivX files per disc on this unit*1 *1Total number of recognizable file including MP3,				
		JPEG, DivX and other type of files is 4000.				
		MP3				
		Format:				
Compression	n	ISO9660 level1 or 2 (except for extended formats), Joliet Compatible compression rate:				
Method		32kbps ~ 320kbps				
		Compatible sampling rate: 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz				
		This unit is not compatible with ID3 tags.				
		CD (JPEG)				
		Format:				
		ISO9660 level1 or 2 (except for extended formats), Joliet Compatible pixels:				
		between 34 × 34 and 6144 × 4096 pixels				
		Sub sampling 4:2:2 or 4:2:0				
		This unit is not compatible with MOTION JPEG.				
		MP3, CD (JPEG) Common Items Maximum number of folders :99				
		Recognizable folders per disc on this unit				
		(including the root folder)				
		Maximum number of files :999 Recognizable files per disc on this unit				
		(total number for all the MP3, CD(JPEG) and other type of files.)				
		This unit is compatible with multi-session This unit is not compatible with packet writing.				
DV Input		IEEE 1394 Standard, 4pin x 1				
SD Card Slot	:	SD Memory Card Slot × 1				
Compatible r		SD Memory Card*				
		*Includes miniSD Cards (A miniSD adaptor				
		needs to be inserted.) and SDHC compatible card (Calss is not supported.)				
Formal		FAT12, FAT16* (In case of SD Memory Card),				
		FAT 32* (In case of SDHC Memory Card)				
		*Long file name is unsupported.				
Still picture (IDEC Conforming DCE /Design rule for				
Image File Fo	anndt.	JPEG Conforming DCF (Design rule for Camera File system)				
		Sub sampling 4:2:2 or 4:2:0.				
Number of pi	xele	34 × 34 pixels to 6144 × 4096 pixels				
		1 Sec. Quick Start for Recording on DVD-RAM*				
Quick Start f Recording	or	*From the power off state, recording on DVD-RAM starts about 1 second after first				
(Quick Start:	ON)	pressing the Power button and then sequentially				
		pressing the REC button (Quick Start Mode).				
Dimensions	D)	Approx. 430 (W) × 84 (H) × 345 (D) mm [Approx. 16 15/16"(W) × 3 5/16" (H) × 13 5/6" (D)]				
(W) × (H) × (Mass	וט	Approx. 5.3 kg (11.66 lbs)				
Operating Te	mperature					
Operating H		35%–80% RH (no condensation)				
Clock unit		Quartz - controlled 12 - hour digital display				
		This model uses lead free solder (PbF).				
Solder						

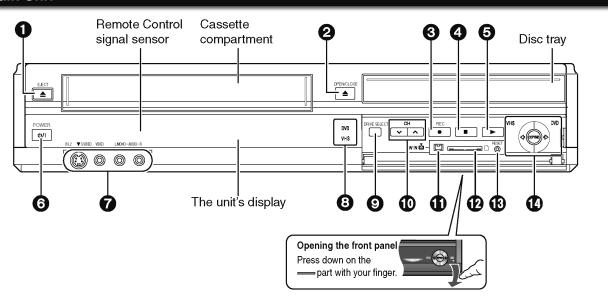
Notes: Mass and dimensions are approximate.

Specifications are subject to change without notice.

5 Location of Controls and Components

5.1. Each Buttons

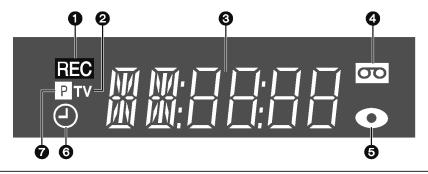
Main Unit



- Cassette eject button
- 2 Disc tray open/close button
- Start recording
- 4 Stop button
- 6 Play/×1.3 button
- **⑥** DVD/VHS POWER on/off button (①/I POWER)
 - Press to switch the unit from on to standby mode or vice versa.
 In the standby mode, the unit is still consuming a small amount of power.
- IN2 input terminals (IN2)

- OVD/VHS drive indicator
 - Lights when the DVD or VHS drive is selected.
- O DRIVE SELECT button
 - Drive changes each time you press [DRIVE SELECT].
- Channel Select
- Connector for a digital video (DV) camcorder
- SD Card Slot
- Reset button
- One Touch Copying operation button
 - From VHS to DVD
 - From DVD to VHS

The Unit's Display



- Recording indicator
- 2 TV indicator

The indicator lights during the TV mode and it goes out during the VCR mode. You can switch the mode by using [VCR/TV]

- Main display section
- 4 Tape indicator
- Disc indicator

This indicator lights up when a disc that is supported by this unit is inserted.

6 Scheduled recording indicator

When a scheduled recording program is registered and a recordable disc or tape is inserted.

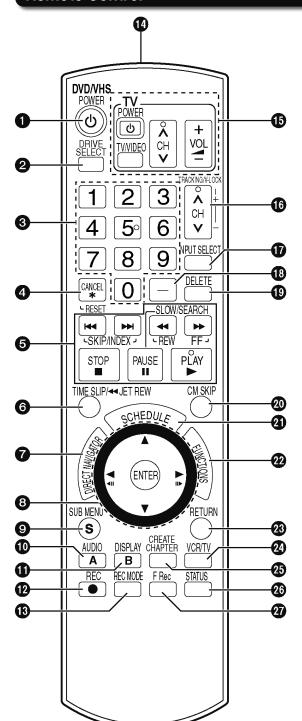
Flashes:

The scheduled recording indicator flashes when the unit cannot go to scheduled recording standby (e.g. there is no disc or tape, etc). It does not flash if Quick Start is off.

Progressive indicator

This indicator lights up when you select "On" in "Progressive"

Remote Control



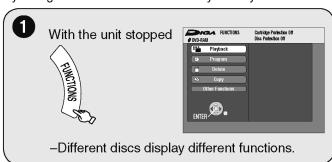
- 1 Turn the unit on or off
- 2 Select drive (DVD, VHS or SD)
- Select channels and recording numbers etc./ Enter numbers
- 4 Cancel/Reset the tape counter
- 6 Basic operations for recording and play
- Skip the specified time/ Jet rewind button (JET REW)
- Direct Navigator
- 8 Selection/Enter, Frame-by-frame
- Show sub menu
- Select audio

[A] for Recordings screen

- Show DVD on-screen menu [B] for Album View screen
- Start recording
- Change recording mode
- Transmission window
- TV and Set Top Box operations
- 6 Channel select/TRACKING/V-LOCK
- Input select (TV, IN1, IN2, DV)
- Sub channel access for digital broadcasts
- Delete items
- Skip 1 minute forward
- Show scheduled recording list
- Show FUNCTIONS window(→ below)
- Return to previous screen
- Select VCR/TV
- Create chapters
- Show status messages
- Start Flexible Recording

FUNCTIONS Window

By using the FUNCTIONS window you may access the main functions quickly and easily.



2

▲, ▼ to select to select a menu item, then

-If you select "Other Functions", press [▲, ▼] to select a menu item and press [ENTER].

6 Operation Instructions

6.1. (DVD) Taking out the Disc from RAM-Drive Unit when the Disc cannot be ejected by OPEN/CLOSE button

6.1.1. (DVD) Forcible Disc Eject

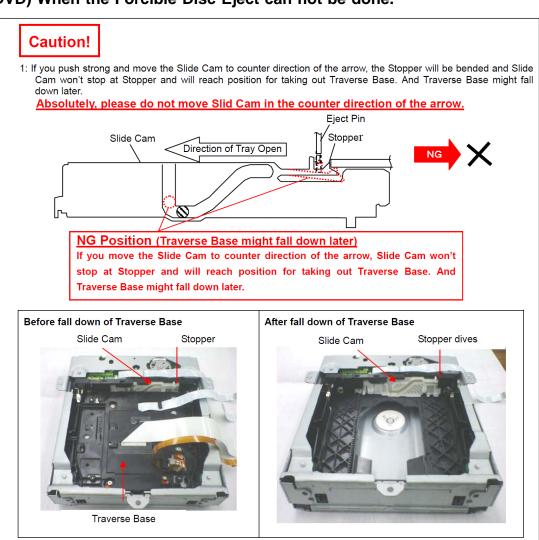
6.1.1.1. (DVD) When the power can be turned off.

1. Turn off the power and press [STOP], [CH UP] keys on the front panel simultaneously for 5 seconds.

6.1.1.2. (DVD) When the power can not be turned off.

1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

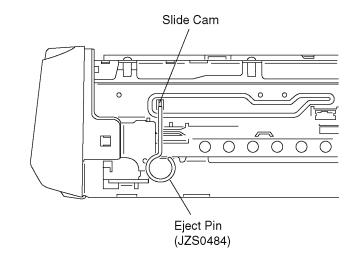
6.1.2. (DVD) When the Forcible Disc Eject can not be done.



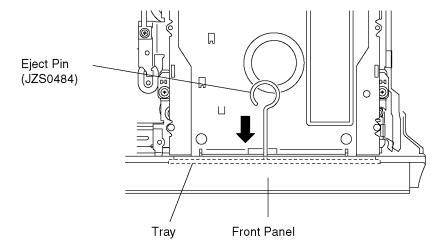
2: Moreover, the slide cam will be on irregular position against condition of the shipment if the tray is pushed by the hand after manual tray ejection is done, the hold of traverse Base becomes imperfect, and the danger of fall of traverse Base increases.

Absolutely, complete close of tray by electricity after manual tray ejection was done. (Especially finish CLOSE function of tray by electricity when the product will be transported after inspection.

- 1. Turn off the power and pull out AC cord.
- 2. Remove the Top Case.
- 3. Push in SLIDE CAM by Eject Pin(JSJ0484) or minus screw driver (small) to eject tray slightly.



4. Push out Tray by Eject Pin (JZS0484) or minus screw driver (small).



6.2. (VHS) Removing Cassette Tape manually

When the cassette tape could not be uninstalled from an electrical malfunction, there are 2 ways to remove a cassette tape.

6.2.1. (VHS) Removal by compulsory unloading.

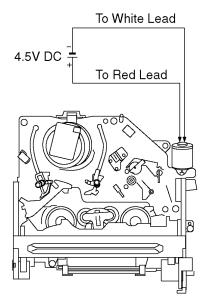
If Service Mode can be activated when the power can not be turned on, this operation is able.

1. Press [STOP] and [CH UP] button simultaneously for more than 5 seconds.

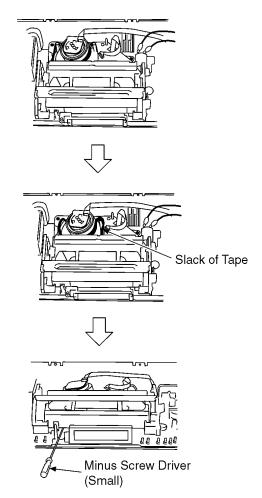
6.2.2. (VHS) Removal by manual operation by rotating the Loading Motor with the batteries.

- 1. Disconnect the AC plug, and remove the Top Panel and the Front Panel by referring to the Disassembly Procedures.
- 2. Connect three batteries (1.5V spec.) to the Loading Motor in series for supplying 4.5V to rotate the Loading Motor as shown below.

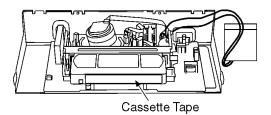
CONNECTION for UNLOADING



- Stop unloading just before unloading will be completed as shown below, and then the tape becomes slack as shown below.
- 4. Rotate the S-Reel by a small minus screwdriver to remove the slack tape as shown below.

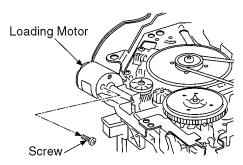


Then unload again to remove the cassette tape as shown below.

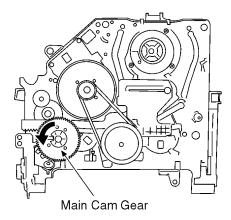


6.2.3. (VHS) Take out Cassette Tapemanually after removing the mechanism

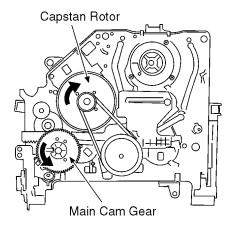
- Disconnect the AC plug, and remove the Top Case, Front Panel and the Mechanism by referring to "9 Assembling and Disassembling Instructions"
- 2. Remove the Screw and remove the Loading Motor as shown below.



3. Rotate the Main Cam Gear counter-clockwise until just before the unloading will be completed as shown below. .

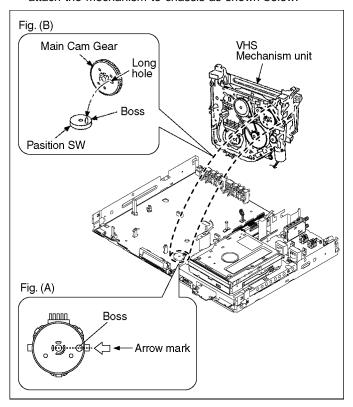


- 4. Rotate the Capstan Motor clockwise to remove the slack tape as shown below.
- 5. Rotate the Main Cam Gear counter-clockwise again to remove the cassette-tape as shown below.



6. Attach Loading Motor and tighten the screw.

7. Set the Position Switch to EJECT POSITION certainly and attach the mechanism to chassis as shown below.



7 Service Mode

7.1. (DVD) Self-Diagnosis and Special Mode Setting

7.1.1. (DVD) Self-Diagnosis Functions

Self-Diagnosis Function provides information for errors to service personnel by "Self-Diagnosis Display" when any error has occurred.

U**, H** and F** are stored in memory and held.

You can check latest error code by transmitting [0] [1] of Remote Controller in Service Mode.

Automatic Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

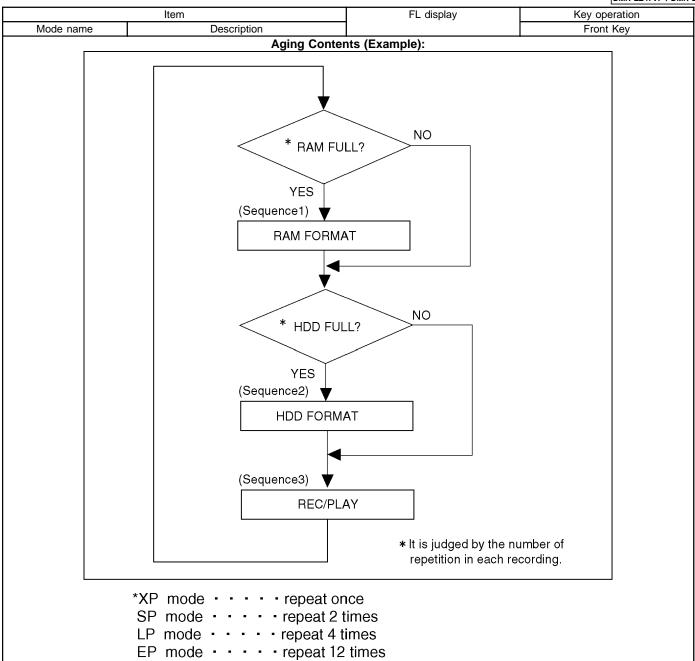
Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL display
U30	Remote control code error	Display appears when main unit and remote controller codes are not matched.		RC * "*" is remote controller code of the main unit. Display for 5 seconds.
U59	Abnormal inner temperature detected	Display appears when the drive has abnormal temperature. The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.		U59 "U59 is displayed for 30 minutes.
U61	The unit is carrying out its recovery process. (with no disc in the disc tray)	The unit detected an error while recording or playing with no disc in the disc tray. The unit is carrying out its recovery process. This process restores the unit to normal operation. The unit is not broken. Wait until the message disappears.	No display	U61
U72	HDMI connection error (communication error)	This error is displayed when there are any communication problems with the unit and the equipments (TV, amplifier etc.) connected to the unit by HDMI. (or when there is a problem with the HDMI cable)		U72 U72 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.
U73	HDMI connection error (authentication error)	When authentication error occurs while the equipments (TV, amplifier etc.) are connected by HDMI. (or when there is a problem with the HDMI cable)		U73 U73 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.
U76	Injustice disc error	HDMI cannot output because you are connected to a model that does not support copyright protection.		U76
U88	recovery process.	The unit detected an error while recording or playing with a disc in the disc tray. The unit is carrying out its recovery process. This process restores the unit to normal operation. The unit is not broken. Wait until the message disappears.	No display	U88
U99	Hang-up	Displayed when communication error has occurred between Main microprocessor and Timer microprocessor.		U99 Displayed is left until the [POWER] key is pressed.
F00	No error information	Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.)	No display	No display

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL display
F09	Serial Communication Error between VHS Microprocessor and Timer Microprocessor.	Please confirm Serial Communication	No display	F09
F34		When initialization error is detected after starting up main microprocessor for program recording, the power is turned off automatically. The event is saved in memory.		No display
F58	Drive hardware error	When drive unit error is detected, the event is saved in memory.	No display	No display
F60	DVD module has not been started.	Defect of Digital P.C.B. Mode: No change	No display	F60
HDMI	HDMI connection check	This unit is confirming that ut is connected with equipment compatible with HDAVI control.		HD r7 I
F74	HDIM Device Key Communication error.	HDMI connection could not be authenticated due to a transfer malfunction. Factor of HDMI Device key-road failure • When HDMI LSI is damaged.		F74
		 When the bus line of I2C doesn't operate normally. When device key information recorded is damaged. 		
F75	HDIM Device Key Information error	HDMI connection could not be authenticated due to an internal data malfunction. Factor of HDMI Device key-road failure • When HDMI LSI is damaged.	No display	F75
		When the bus line of I2C doesn't operate normally. When device key information recorded is damaged.		
UNSUPPO RT	Unsupported disc error	*An unsupported format disc was played,	incompatible."	UNSUP POrt Display for 5 seconds.
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	"Cannot read. Please check the disc."	No.
HARD ERR	Drive error	The drive detected a hard error.	"DVD drive error."	Display for 5 seconds. HArd Frr
No REC	Recording is impossible	[No REC] is displayed when recording is impossible due to the defect, dirt or wound of media.		WR ItE t Err
SELF CHECK	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, there is the possibility that defective Digital P.C.B.	No display	O V V OOOO O OOOO.

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL display
PLEASE WAIT	Unit is in termination process	Unit is in termination process now. "BYE" is displayed and power will be turned off. In case "Quick Start" of setup menu is ON, it is displayed in restoration operation for AC off.		0 0 0000 "0" is displayed one by one.
UNFORM AT	Unformatted disc error	You have inserted an unformatted DVD-RAM or DVD-RW that is unformatted or recorded on other equipment.		UNFOr MAt

7.1.2. (DVD) Special Modes Setting

	Item	FL display	Key operation
Mode name	Description		Front Key
TEST Mode	*All the main unit's parameters are initialized.	TM L1	Press [VHS to DVD COPYING], [REC] and [OPEN/CLOSE] keys simultaneously for five seconds when power is off.
Rating password	The audiovisual level setting password is initialized to "Level 8".	No display	When the power is on (E-E mode). While the tray is open, press [REC] and [PLAY] simultaneously for 5 seconds.
Service Mode	Setting every kind of modes for servicing. *Details are described in "7.1.3. (DVD) Service Modes at a glance".	SM	When the power is off, press [VHS to DVD COPYING], [OPEN/CLOSE] and [STOP] keys simultaneously for 5 seconds.
Forced disc eject	Removing a disc that cannot be ejected. The tray will open and unit will shift to P-off mode. *During Schedule Recording, Forced disc eject is invalid. While Demonstration Lock is being set, this Forced disc eject function is not accepted.	leaves. *****	When the power is off, press [STOP] and [CH UP] keys simultaneously for 5 seconds.
Forced power-off	When the power button is not effective while power is ON, turn off the power forcibly. *When Schedule Recording is ON, execute "Forced Power-off" after releasing Schedule Recording.		Press [POWER] key over than 10 seconds.
Aging	Perform sequence of modes as * Aging Description shown below continually. Caution: All programs in DVD-RAM disc will be deleted because Formatting is done once in Aging process.	Display following the then mode.	Set DRIVE SELECT to DVD. When the power is ON, press [CH DOWN], [VHS to DVD COPYING] and [OPEN/CLOSE] simultaneously for over 5 seconds and less than 10 seconds. NOTE1: If Unit has not turned into Aging mode by operations shown above, execute TEST MODE once and reexecute operation shown above. (*All the main unit's parameters are initialized by TEST mode.) NOTE2: If the unit has hung-up because of pressing keys for over 10 seconds, once turn off the power, and reexecute this command. *When releasing Aging mode, press [POWER] key, AC-OFF.



	Item	FL display	Key operation
Mode name	Description		Front Key
Demonstration lock/unlock	Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by "Main unit initialization" of service mode.	*When lock the tray. LK On "LOCK" is displayed for 3 seconds.	When the power is on, press [STOP] and [POWER] keys simultaneously for 5 seconds. *The time difference of simultaneous key pressings should be within 0.5 sec. Note1: When a disc in not in tray, this setting is not effective.
			Note2: Time difference between pressing of [STOP] and [POWER] should be within 0.5 seconds.
		*When unlock the tray. LK OFF	When the power is on and tray being locked, press [STOP] and [POWER] keys simultaneously for 5 seconds.
		"UNLOCK" is displayed for 3 seconds.	
		*When press OPEN/CLOSE key while the tray being locked. LK On	Press [OPEN/CLOSE] key while the tray being locked.
		Display "LOCK" for 3 seconds.	
Progressive initialization	The progressive setting is initialized to Interlace.	The display before execution leaves. ******	When the power is on (E-E mode), press [STOP] and [VHS to DVD COPYING] simultaneously for 5 seconds.
ATP Initialization	ATP setting and all parameters (including clock) are intialized, and the unit turns off automatically.	It is same with display in stop mode.	When the power is on (E-E mode) press [CH UP] and [CH DOWN] simultaneously for 5 seconds.

7.1.3. (DVD) Service Modes at a glance

Service mode setting: While the power is off, press [STOP], [VHS to DVD COPYING] and [OPEN / CLOSE] simultaneously for five seconds.

	Item		FL display	Key operation
Mode name	Description			(Remote controller key)
Release Items	Item of Service Mode executing is cancelled.		SM	Press [0] [0] or [Return] in service mode.
ROM Version Display	Region code (displayed for 5 sec.) Main firm version (displayed for 5 sec.) Timer firm version (displayed for 5 sec.) Drive firm version (displayed for 5 sec.)	1.	NO*	Press [0] [2] in service mode
	5. ROM correction version (displayed for 5 sec.)6. VHS Microprocessor version (displayed for 5 sec.)	2.	*****	
	7. VHS ROM correction version (left displated)	3.	*****	
		4.	***	
		5.	***	
		6.	****	
		7.	**	
		★ are version displays.		
White Picture Output	from AV Decoder. *White picture	*Initial mode is "Interlace".		Press [1] [1] in service mode.
			WH it	
	*It is enable to switch Interlace/Progressive by "I/P switch: [1] [4]"	Swite	ch Interlace/Progressive	Press [1] [4] in White Picture Output mode.
			WH it P	*I/P are switched alternately.
Magenta Picture Output	icture Output Magenta picture is output with Component Output from AV Decoder. *Magenta picture (Saturation rate: 100%) *It is enable to switch Interlace/Progressive by "I/P switch: [1] [4]"	*Initia	al mode is "Interlace".	Press [1] [2] in service mode.
			MAGE	
		Swite	ch Interlace/Progressive	Press [1] [4] in Magenta Picture Output mode.
			MAGE P	*I/P are switched alternately.
I/P Switch	Switch Interlace and Progressive in EE mode.	Initia	l mode is Interlace	Press [1] [4] in I/P Switch mode. *I/P are switched alternately.
	*Initial setting is "Interlace". *This command is effective during executing "White Picture Output", "Magenta Picture Output" and mode.		SM P	// are switched alternately.
	2 3.7 2.7 3.73333.	Swite	ch Interlace/Progressive	
Audio Mute (XTMUTE)	Check whether mute is applied normally by the timer microprocessor.		ХТ	Press [2] [1] in service mode.
Audio Mute (XDMUTE)	Check whether mute is applied normally by the Digital P.C.B		DT	Press [2] [2] in service mode.

DMR-EZ47VP / DMR-EZ475VP

		Item		FL display		Key operation
I	Mode name	Description				(Remote controller key)
	Audio Pattern Output	The audio pattern stored in the internal memory is output (Lch: 1kHz/-18dB) (Rch: 400Hz/-18dB)		Mode (Audio 48kHz) AU 48		Press [2] [3] in service mode.
		*Audio sound clock switching operation of DAC can be confirmed by sub command [2] [4].		o 44.1kHz/48kHz switching AU 44		Press [2] [4] in Audio Pattern Output mode. *48 kHz / 44.1 kHz are switched alternately.
- 1	Laser Used Time Indiction	Check laser used time (hours) of drive.	I. `	**** is the used time displa		Press [4] [1] in service mode.
				ser used time of DVD/ Coack/Recording mode	D in	
- 1	Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.		CLr 1		Press [9] [5] in service mode.

	Item	FL display	Key operation
Mode nam			(Remote controller key)
RAM Drive Last E	error RAM Drive error code display.	1. Error Number is displayed for 5	Press [4] [2] in service mode.
	*For details about the drive error code, re		When "INFO*****" is being
	to the Service Manual for the specific Ra Drive.	NO **	displayed, past 99 error histories can be displayed by pressing [0] [1
			- [9] [9]
		2. Time when the error has	
		occurred (1/2) is displayed for 5	
		seconds.	
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		YYMMDD	
		YY: Year	
		MM: Month	
		DD: Day	
		3. Time when the error has	
		occurred (2/2) is displayed for 5 seconds.	
		hhmmss	
		hh: Hour	
		mm: Minute ss: Second	
		4. Last Drive Error code No.1 is	
		displayed for 5 seconds.	

		<u> </u>	
		03: Bad disc	
		04: Bad disc or drive	
		malfanction	
		5. Last Drive Error code No.2 (1/2)	
		is displayed for 5 seconds. (This Error Code is unnecessory	
		for service.)	

		C. Lead Bridge Francisco de Nico (2/2)	
		6. Last Drive Error code No.2 (2/2) is displayed for 5 seconds.	
		(This Error Code is unnecessory	
		for service.)	

		7 Farm comming Disastrancia	
		7. Error occurring Disc type is displayed for 5 seconds.	
		DISC *	
		DISC 1: DVD	
		DISC 2: CD DISC 3: DVD-RAM 2.6GB	
		DISC 3: DVD-RAM 2.6GB DISC 4: DVD-RAM 4.7GB	
		DISC 5: DVD-R	
		DISC : Unknown Disc	
		8. Unused (No display)	
		Factor of Drive Error occurring is	
		left displayed	

Delete the Lee	t Drive Delete the Last Drive Error information sto	2d	Press [9] [6] in service mode.
	on the DVD RAM-Drive.	CLr 2	i 1033 [3] [0] III SELVICE IIIOUE.
Error		1 1 ()	

	Item	FL display	Key operation
Mode name	Description	1	(Remote controller key)
	Drive state is judged based on difference between laser power value at shipping and present laser power value.	TESt * * is judgment result	I. Insert DVD-RAM disc (5 ×) into RAM Drive in service mode. (Other media are assumed to be non-correspondence.)
		* Power value Evaluation	2. Press [4] [4].
		difference 0 1mW or less Very good.	
		1 2mW or less Good.	
		2 3mW or less Bad.	
		3 4mW or more Very bad.	
		If DVD-RAM disc in not inserted [NO DISC] is displayed. If power value study was filed [ERROR] is displayed.	
Turn on all FL/LEDs	All segments of FL and all LEDs are turned on.	All segments are turned on.	Press [5] [1] in service mode.
S1 signal output	Forcibly superimpose the S1 signal (approx. 4.5V DC) on the EE chroma signal, and check the output on the S terminal.	S1	Press [5] [2] in service mode.
S2 signal output	Forcibly superimpose the S2 signal (approx. 2V DC) on the EE chroma signal, and check the output on the S terminal.	S2	Press [5] [3] in service mode.
Front connection inspection	Press all front keys and check the connection between Main P.C.B. and Front key Switches.	<u>0Γ **</u> (1) (2)	Press [5] [4] in service mode. *When finish this mode, press [POWER] for 10 seconds.
		(1) Each time a key is pressed segment turned on increases one by one. (2) Total number of keys that have been pressed.	
Production Date Display	Display the date when the unit was produced.	YYMMDD	Press [6] [1] in service mode.
		YY: Year MM: Month DD: Day	
Display the accumlated working time	Display the accumulated unit's working time.	*****	Press [6] [4] in service mode.
		(Indicating unit: Second)	

	Item	FL display	Key operation
Mode name	Description		(Remote controller key)
Display the Error History	Display the Error History stored on the unit.	NO ** 01: Defect of Digital P.C.B. (AV DEC / MAIN CPU) 02: Defect of RAM Drive.	Press [6] [5] in service mode. Then press [0] [1] ~ [1] [9], the past 19 error histories are displayed.
		03: Defect of Disc. 04: Defect of Digital P.C.B. or Communication Error. 05: Defect of Digital P.C.B. (AV DEC / MAIN CPU)	
		Display the time when the error has occurred for 5 seconds. DDhhmm DD: Day	
		hh: Hour mm: Minute Accumulated working time till occuring of the error is left displayed. ***** (Indicating unit: Second)	
Delete the Error History	Delete Error History information stored on the unit.	,	Press [9] [7] in service mode.
Tray OPEN/CLOSE Test	The RAM drive tray is opened and closed repeatedly.	*****	Press [9] [1] in service mode *When releasing this mode, press the [POWER] button of Remote Controller more than 10 seconds.
		cycle times.	
Error code initialization	Initialization of the last error code held by timer (Write in F00)	CLr 4	Press [9] [8] in service mode.
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting.	CLr 5	Press [9] [9] in service mode.
Finishing service mode	Release Service Mode.	. , , ,	Press power button on the front panel or Remote controller in service mode.

7.2. (VHS) Self-Diagnosis and Special Mode Setting

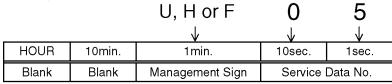
7.2.1. (VHS) Self-Diagnosis Functions

This model has a self-diagnosis and display function. If the VHS section detects trouble during installation or during use, one of the following Error Codes will automatically appear in the display on VHS side. Error Codes are displayed in the form of a single English letter followed by two numbers, as for example "H01".

Note:

- 1. The indication "U" is displayed on the FIP while power remains on.
- 2. The indication "H" or "F" is displayed on the FIP, and the power is automatically turned off. When the power is turned on again, the Error indication code will disappear and the unit will return to normal display mode (either clock or counter is displayed).
- 3. This Error indication code will be stored in the microprocessor even after the AC plug being disconnected.
 - The two-digit number portion of the stored Error indication code can be re-displayed in "second" display portion (the last 2 digits of the FIP) by placing the unit is Service Mode Number 3 When turning on Service Data Display as for example "01" or "02" etc. If a second error occurs, the most recent error will be displayed and stored until 3 self-diagnosis histories in maximum.
- 4. To erase the stored Error Code data, Press STOP and EJECT buttons on VHS simultaneously for over 5 seconds in Service Mode 3.

Example of Error Indication on the FIP



Division of Management

Management Sign	Management Division		
U	User can deal with.		
Н	Shop can deal with.		
F	It should be dealt with in service shop.		

Error Number at a glance

Memory No. (Error No.)	Reason	Automatic display	Memory
H01	The cylinder could not be started. (Error of the cylinder or the cylinder driver.)	Yes	Yes
H02	The CAP FG could not be detected.	Yes	Yes
F03	Mechanism lock during without the unloading and the cassette-up.	Yes	Yes
F04	Mechanism lock during unloading	Yes	Yes
F05	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	No	Yes
F06	Mechanism lock during the Cassette-up.	Yes	Yes
F09	Communication Error between VHS Microprocessor (IC6001) and Timer Microprocessor (IC7501)	Yes	Yes
H07	The recording circuit can not be operated in REC mode.	Yes	Yes
H08	The recording circuit is operated in except for REC mode.	Yes	Yes
U11	Cylinder clogs during the PLAY mode.	Yes	Yes
F15	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	No	Yes
H16	Detection of the Cylinder lock during the constant rotation	No	Yes
H17	Detection of S-reel lock during the constant tape running	Yes	Yes
H18	Detection of T-reel lock during the constant tape running	Yes	Yes
F20	NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)	Yes	Yes
F21	NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)	Yes	Yes
F22	NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is our of specification.)	Yes	Yes
F23	NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)	Yes	Yes
H80	An exceptional ejection depends on a Error	No	Yes

7.2.2. (VHS) Special Modes Setting

NOTE:

OPERATION SELECT should be set to VHS.

	Item	FL display	Key operation
Mode name	Description]	Front Key
Tracking Center	Tape Tracking is adjusted to center FIX position.	No display.	During PLAYBACK, press [CH UP] and [CH DOWN] keys simultaneously.
VHS Service Mode	In order to make service easy, a part of inside information of a microprocessor is displayed on FIP. *Details are described in "7.2.3. (VHS) Service Modes ".	* * * * *	Press [STOP], and [EJECT] keys simultaneously for 3 seconds when power is off.
Eject	Ejecting Cassette Tape	No display.	While in other than Timer REC mode, press [STOP] key for 3 seconds or press [STOP] key of the Remote Controller for 3 seconds in VHS mode.

7.2.3. (VHS) Service Modes

<Service Mode Setting>

Set OPERATION SELECT to VHS.

When power is OFF, press [STOP] and [EJECT] keys simultaneously for 3 seconds to into Service Mode.

In Service Mode, press [STOP] and [EJECT] keys simultaneously to add Service Number.

7.2.3.1. (VHS) Service Mode and Service Data at a glance

Service Number	Contents		Contents of Indication on minute	Contents of Indication on second	Remarks
	inner data			Process number (Real time)	
	IC6001			Management number of the processing during mechanism shifting	
	Indication for inner data IC6001	of	Starting / finishing edges detecting data (Real time)	Data of receiving key (Real time)	
			have not been	Indicate the receiving code when the key of VHS or remote controller being operated.	

7VP / DMR-E				·
Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
2	inner data of IC6001	02: DOWN position 03: RREW position 04: LOAD position 05: REV position 06: PLAY position 07: POFF position 08: STOP_R position 09: STOP_F position - : FF/REW position - : Intermediate between each positions	9*: CYL on, CAP on (fwd) B*: CYL on, CAP on (rev) *0: Motor off *1: Loading *2: Unloading *3: Break (Load + Unload)	There are next conditions in this mode for enable the mechanism operations without a cassette tape. The starting / finishing edges are not detected. The reel lock is not detected The tape and the positions are not detected. And so on. Press the EJET key for over 3 seconds in this mode, and then the VHS is shifted into the special modes, such as PG Adjustment, Model Code Setting, and so on. The orders for the motors are as follows. Bit 7: CYL ON/OFF Bit 6: Bit 2: Bit 1: UNLOADING(H) Bit 0: LOADING(H)
3	Self-diagnosis history (1st)	Error number of history 1	history 1.	In the Self-Diagnosis Memory, next 3 BYTE is memorized for an Error.
4	Self-diagnosis history (2nd)	Error number of history 2	Supplementary data 1 and 2 of history 2.	2 BYTE: Its supplementary data In these modes, the supplementary data 3 and 4 instead of the Error
5	Self-diagnosis history (3rd)	Error number of history 3	Supplementary data 1 and 2 of history 3.	number and supplementary data 1 and 2 are indicated only while pressing STOP key.
6		Real time servo data (4 digits) (Real time) Higher rank 1 BYTE of SERVO data	Lower rank 1 BYTE of SERVO data	
7	Manual mechanism operation	Real time mechanism position OL: EJECT position O2: DOWN position O3: RREW position O4: LOAD position O5: REV position O6: PLAY position O7: POFF position O8: STOP_R position O9: STOP_F position - : FF/REW position - : Intermediate between each positions	Real time ordering for the Motors 0*, 2*: CYL off,	Press the STOP key, and then the cassette tape is unloaded.

7.2.3.2. Example of FIP

4	0	3	1	2
HOUR	10min.	1min.	10sec.	1sec.
Service No.	Service Data 1		Service	Data 2

7.2.4. (VHS) Self-Diagnosis History Memory Function

7.2.4.1. (VHS) Condition for memorizing of the self-diagnosis history

- 1. The self-diagnosis result and the supplementary data are the condition memorized just as an Error is detected.
- 2. There are the histories from number 1 to number 3.
- 3. The latest Error is memorized on history number 1, and then the old histories are shifted to the history number 2, 3.
- 4. Put out data from the memory number 3 by the shift is deleted.
- 5. If the latest Error is same with the history number 1 (2nd-latest), it is not memorized. (The same Error number is not memorized in succession)

7.2.4.2. (VHS) Condition for clearing the self-diagnosis history

1. A case of that press the STOP key and the EJECT key simultaneously over 5 seconds.

7.2.4.3. (VHS) Indication of the self-diagnosis history.

- 1. The self-diagnosis histories and its supplementary data could be indicated on the FIP with Service mode of number from 3 to 5.
- 2. The procedure of setting the service mode and the format if the indication are same as usual.

FIP INDICATION:	4	0	3	5	2			
				★		<u> </u>		
Hour of one-digit	Minute of two- digit	Minute of one- digit	Second of t	wo-digit	Second of	one-dig	it	
Service mode number	Error no	umber		Supplem	nentary Data			
3	Number of history	1 (The latest)	Supplementary history 1	data 1 of	Supplementary history 1	data	2	of
4	Number of history	2 (2nd latest)	Supplementary history 2	data 1 of	Supplementary history 2	data	2	of
5	Number of history	3 (3rd latest)	Supplementary history 3	data 1 of	Supplementary history 3	data	2	of

Both the Error numbers and its supplementary data of history 1, 2and 3 are indicated by selecting the Service mode 3, 4 and 5 as shown above.

In case of that any Error has not been memorized, the Error number and its supplementary data is indicated as " - ".

7.2.4.4. (VHS) Display of Supplementary Data 3 and 4

During displaying the Self-Diagnosis History, press [STOP] key on front panel to change the display.

*Example of Display



- A: Service Mode Number.
- B: Supplementary Data 3...Mechanism process shifting Number.
- C: Supplementary Data 4...LM(Loading Motor information)

*Display of 4 12 02 means that " Loading Motor turns ON when [EJECT] button was pressed, but an error has occurred while mechanism was between REV position and LOAD position.

<Supplementary Data 3>

[EJECT]	[FF]	[REW]
10: PLAY → passing REV 11: passing REV 12: passing REV → LOAD (Capstan STOP) 13: LOAD → DOWN 14: DOWN → EJECT 15: EJECT completion	U0: PLAY → STOP F U1: STOP F → FF U2: FF starting up	A0: PLAY → STOP F A1: STOP → REW A2: REW starting up
[PLAY]	[REC]	[STILL]
20: Cylinder starting up, Phase drawing	30: Cylinder starting up, Phase drawing	40:Turning forward
21: Audio muting, VV selection	31: REC signal output	41:Speed is 0, Capstan is OFF
[P.ON]	$[STILL \rightarrow PLAY]$	[CUE]
Process of turning on power	48: Tape sending	49: x2 speed sending, Turning point of Calculating remains
[P.OFF]	[CUE → PLAY]	[REV]
70: PLAY → P.OFF	4A: Finishing edge Checking, Tape sending	80: PLAY → P.OFF
_	4-: PLAY Checking, Tape sending	81: Rewinding
		$P.OFF \rightarrow REV$

<Supplementary Data 4> (LM Information)

Result of request of driving Loading Motor.

Display	Description
1	There was no change of mechanism position. (Loading Motor was OFF)
2	There was some change of mechanism position. (Loading Motor was ON)

7.2.5. (VHS) Description of Self Diagnosis Memory

In this Self-Diagnosis Function, in case error has occurred continuously, maximum of the newest 3 error data are memorized.

And in order to analyze cause of error, the error number and the supplementary data of mode, mechanism position and so on are memorized.

7.2.5.1. (VHS) Error Number and Supplementary Data

The Supplementary Data as shown below are memorized to each error number.

Error No.	Reason	Supplementary Data			
		Data 1	Data 2	Data 3	Data 4
01	The cylinder could not be started. (Error of the cylinder or the cylinder driver.)	VHS mode	-	-	-
02	The CAP FG could not be detected.	VHS mode	-	Process No.	Number of FG
03	Mechanism lock during without the unloading and the cassette-up.	VHS mode	Standby position	Process No.	LM information
04	Mechanism lock during unloading	VHS mode	-	Process No.	LM information
05	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	VHS mode	Tape position	Process No.	LM information
06	Mechanism lock during the Cassette-up.	VHS mode	Standby position	Process No.	LM information
07	The recording circuit can not be operated in REC mode.	VHS mode	-	Process No.	-
08	The recording circuit is operated in except for REC mode.	VHS mode	-	Process No.	-
09	Serial communication Error between VHS Microprocessor (IC6001) and Timer Microprocessor (IC7501).		-	-	-
11	Cylinder clogs during the PLAY mode.	VHS mode	-	Process No.	-
15	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	VHS mode	Value of S-Reel Pulse counted	Process No.	-
16	Detection of the Cylinder lock during the constant rotation	VHS mode	Tape position	Process No.	-
17	Detection of S-reel lock during the constant tape running	VHS mode	Tape position	Process No.	Number of FG
18	Detection of T-reel lock during the constant tape running	VHS mode	Tape position	Process No.	Number of FG
20	NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)	VHS mode	-	Process No.	-
21	NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)	VHS mode	-	Process No.	-
22	NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is our of specification.)	VHS mode	-	Process No.	-
23	NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)	VHS mode	-	Process No.	-
80	An exceptional ejection depends on a Error	VHS mode	Refer to *Note 3	Process No.	-

Note 1: Details of "VHS mode" of the Supplementary Data 1 (These values are hexadecimal indication)

0: STOP, 1: EJECT, 2: REW, 3: FF, 4:REV, 5: CUE, 6: SLOW, 7: POWEROFF, 8: PLAY, 9: STIL,

A: REC, B: REC PAUSE, C: ADUB, D: ADUB PAUSE, E: INSERT, F: INSERT PAUSE

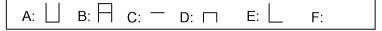
Note 2: Explanation of "Tape position" of the Supplementary Data

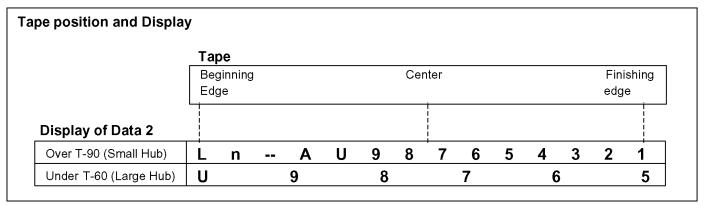
The Tape position Data is the area data of S-reel that is used for judgment of reducing speed in the Main microprocessor IC6001, and as the tape position is moved from the starting edge to the finishing edge, the value becomes smaller.

The Tape Data does not become "0" even if the tape reaches the finishing edge as the hub remains, and the tape position values are different between the large hub and the small hub as the each diameters are different from each other.

Tape Type	The aim of Tape position between the starting edge and the finishing edge		
	The Tape position is divided into 6 stages between the Tape beginning edge: "A " and the Tape end edge: "5".		
90 min. or over type (Small Hub)	The Tape position is divided into 14 stages between the Tape beginning edge: "E " and the Tape end edge: "1".		

- "A" and "E" is hexadecimal. "A" =10 (Decimal), "E" =14 (Decimal).
- Hexadecimal indication from "A" to "E" are shown below.





Note 3: Supplementary Data 2 (Reason of Ejection)

Supplementary Data 2	Reason	
1	S-reel pulse is less than 3 when the loading has been completed. (Miss catching the tape)	
2	Pulse Timer over during the short rewind at the DOWN position. (Error of S-photo sensor system, S-reel system, Capstan system)	
3	Mechanism lock from the DOWN position to the LOAD position during the loading.	
4	Both ends have been detected at the LOAD position when the loading is started.	

8 Service Fixture & Tools

(For DVD)

Part Number	Description	Compatibility
RFKZ0168	Extension Cable (Power & Digital I/F P.C.B FAN / 3 Pin)	Same as E50 / ES30V / ES40V Series
RFKZ0169	Extension Cable (Power & Digital I/F P.C.B DVD Drive / 4 Pin)	Same as E100H Series
RFKZ0366	Extension FFC (Digital P.C.B DVD Drive / 40 Pin)	Same as EH55 Series
RFKZ0327	Extension Cable (Main P.C.B Power & Digital I/F P.C.B. / 15 Pin / 40 mm)	Same as ES40V Series
RFKZ0240	Extension Cable (Main P.C.B Power & Digital I/F P.C.B. / 19 Pin / 40 mm)	Same as EH75V / ES30V / ES40V Series
RFKZ0178	Extension Cable (Main P.C.B Power & Digital I/F P.C.B. / 7 Pin)	Same as EH75V Series
RFKZ0215	Extension Cable (Main P.C.B Front (L) P.C.B. / 12 Pin)	Same as ES15 / E55 / ES30V / ES40V Series
RFKZ0239	Extension Cable (Power & Digital I/F P.C.B Front (R) P.C.B. / 10 Pin)	Same as E75V / ES30V Series
RFKZ0260	Extension Cable (Power & Digital I/F P.C.B Digital P.C.B. / 88 Pin)	Same as ES15 / EH55 Series
JZS0484	Eject Pin	Same as ES15 / E50 Series
RFKZ03D01K	Lead Free Solder (0.3mm/100g Reel)	Same as ES15 Series
RFKZ06D01K	Lead Free Solder (0.6mm/100g Reel)	Same as ES15 Series
RFKZ10D01	Lead Free Solder (1.0mm/100g Reel))	Same as ES15 Series
RFKZ0316	Solder Remover (Lead free low temperature Solder/50g)	Same as ES15 Series
RFKZ0328	Flux	Same as ES15 Series
RFKZ0329	Bottle of Flux	Same as ES15 Series

(For VHS)

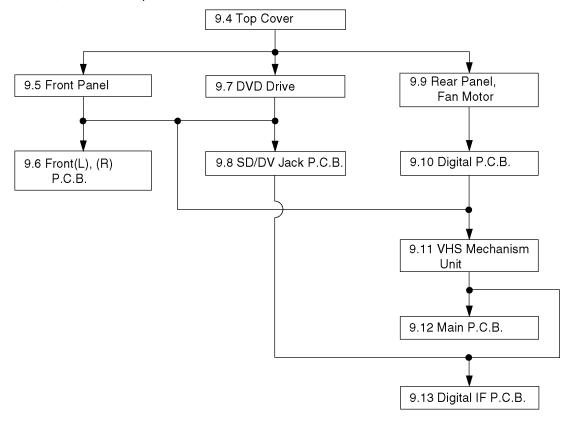
Part Number	Description	Compatibility
VFM8080HQFP	NTSC VHS Alignment Tape	Same as E75V / ES30V / ES40V Series
VFK0329	Post Adjustment Screwdriver	Same as E75V / ES30V / ES40V Series
VFK0330	Fine Adjustment Gear Driver	Same as E75V / ES30V / ES40V Series

9 Assembling and Disassembling Instructions

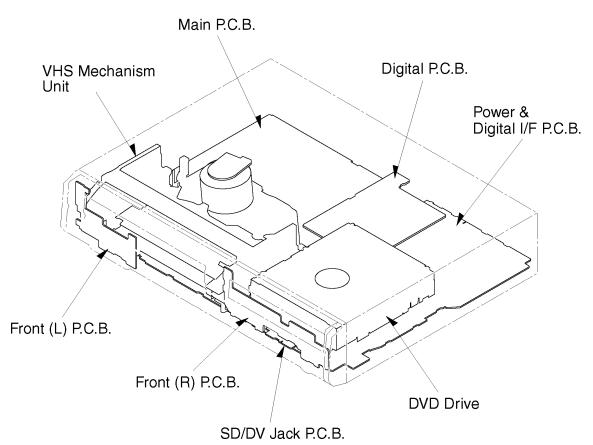
9.1. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.



9.2. P.C.B. Positions



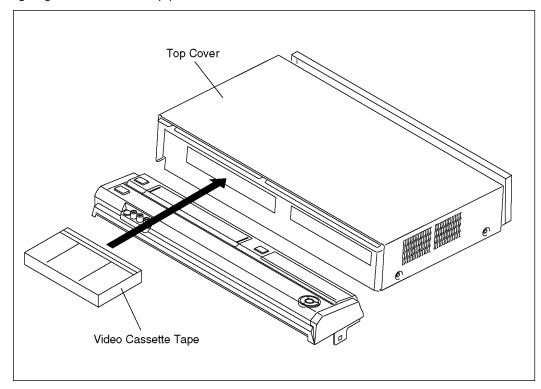
9.3. Caution with inserting cassette tape when disassembling the unit

Note1:

For description of the disassembling procedure, see the section 9.4.

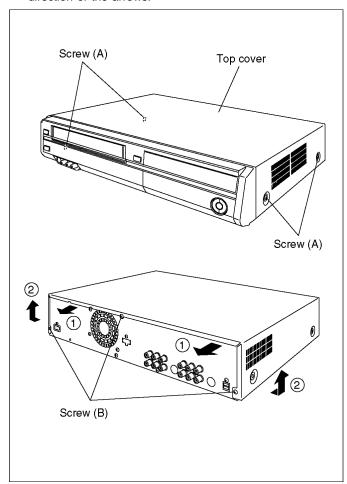
Note2

Video Cassette might not enter when a strong lighting is applied to VHS Mechanism when Video Cassette is inserted. Please weaken the lighting or cover with the top panel etc.



9.4. Top cover

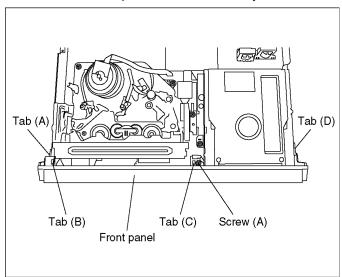
- 1. Remove the 4 screws (A) and 3 screws (B).
- Slide Top cover rearward and open the both ends at rear side of the Top cover a little and lift the Top cover in the direction of the arrows.



9.5. Front Panel

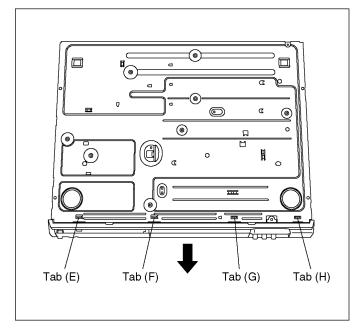
- 1. Remove one screw (A).
- 2. Unlock 4 tabs in (A) (D) turn.

Pull with the front panel in the direction of your side.



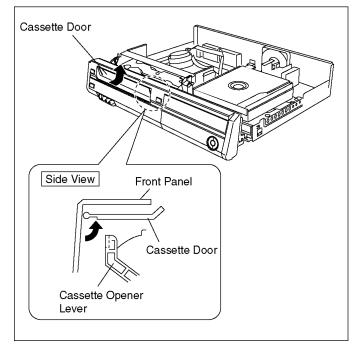
3. Make the unit turn inside out, push the tabs (E) - (H) by (-) screwdriver while pulling Front panel in the direction of

arrow.



Note:

When attaching Front Panel, in order to hook Cassette Door Opener Lever to Cassette Door, push up cassette door in the direction of arrow and insert a front panel.



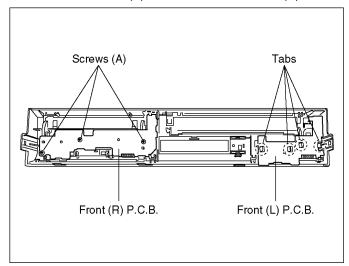
9.6. Front (L) P.C.B. & Front (R) P.C.B.

9.6.1. Front (L) P.C.B.

1. Remove 4 tabs to remove Front (L) P.C.B..

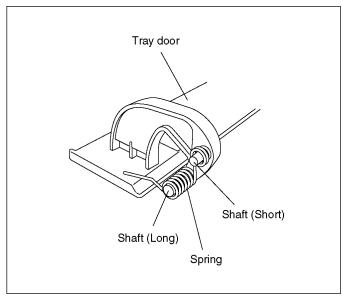
9.6.2. Front (R) P.C.B.

1. Remove 3 screws (A) and tab to remove Front (R) P.C.B..

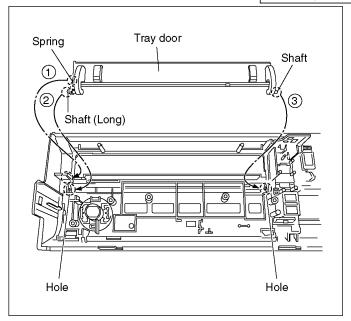


9.6.3. How to assemble Tray door ass'y

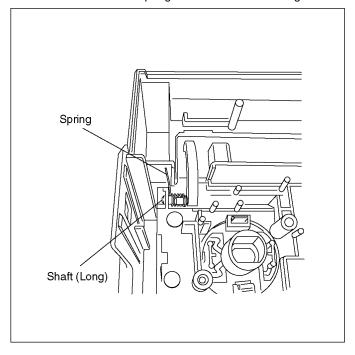
1. Attach Blinder spling to Tray door ass'y.



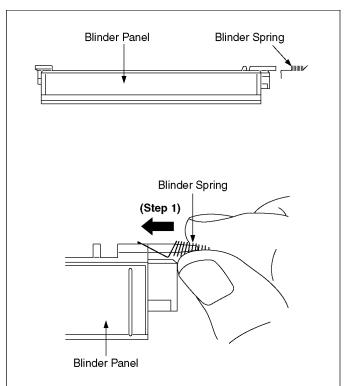
- 2. Attach Tray door ass'y in order from ① to ③.
 - ①: Put the Brinder spring on the front panel.
 - ②: Insert the shaft in the hole.
 - ③: Insert the shaft in the hole.



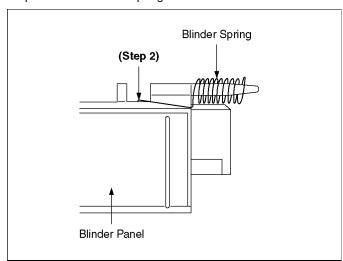
3. Confirm the Brinder spring is attached as following.



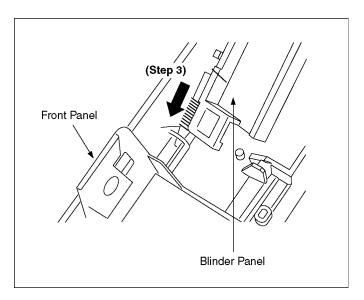
9.6.4. Assembly of Blinder Panel and Blinder Spring



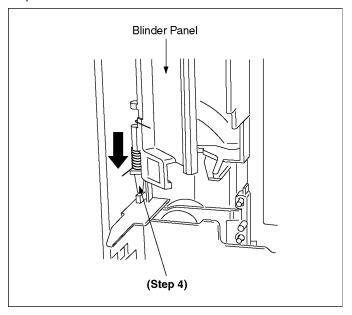
Step 1: Insert Blinder Spring into shaft of Blinder Panel.



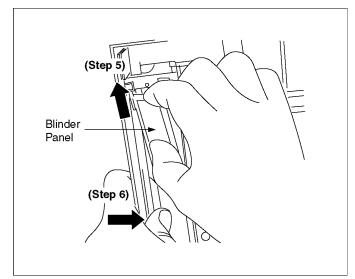
Step 2: Hook Blinder Spring to bottom of the shaft.



Step 3: Slide Blinder Panel into shaft hole of Front Panel.



Step 4: Slide down Blinder Panel to touch the shaft on top of the rib.

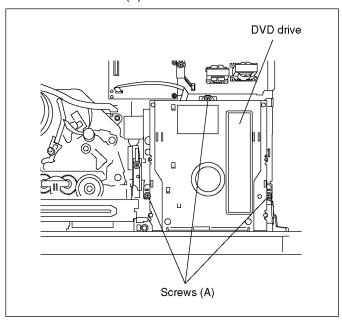


Step 5: Push shaft into shaft hole.

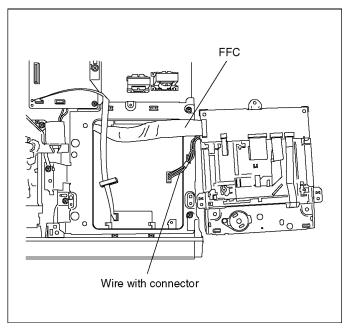
Step 6: Press centre of Blinder Panel and bow down.

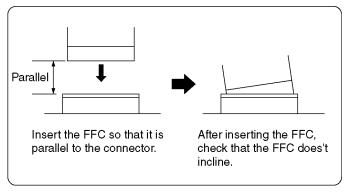
9.7. DVD drive

1. Remove 3 Screws (A).



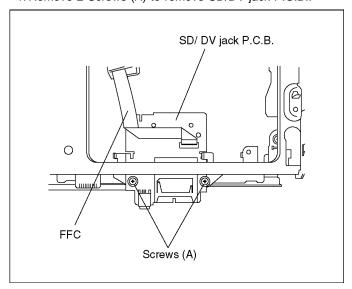
2. Disconnect FFC and Wire with connector, remove DVD drive.

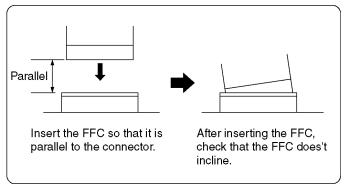




9.8. SD/DV Jack P.C.B.

1. Remove 2 Screws (A) to remove SD/DV jack P.C.B..

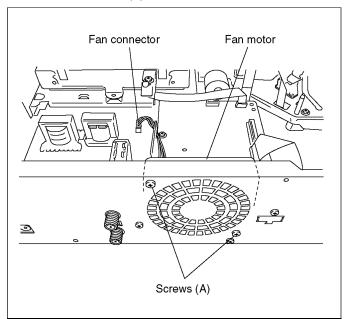




9.9. Rear Panel, Fan Motor

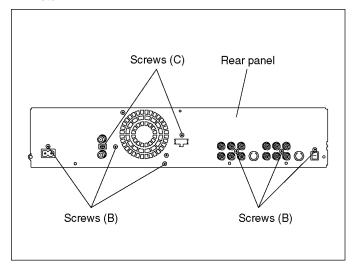
9.9.1. Only Fan motor

- 1. Disconnect Fan Connector.
- 2. Remove 2 Screws (A) to Remove Fan Motor.



9.9.2. Rear panel with fan motor

- 1. Disconnect Fan Connector.
- 2. Remove 6 Screws (B) and 2 Screws (C).
- Unlock 2 Locking Tabs (A) to remove Rear Panel with Fan Motor.



9.10. Digital P.C.B.

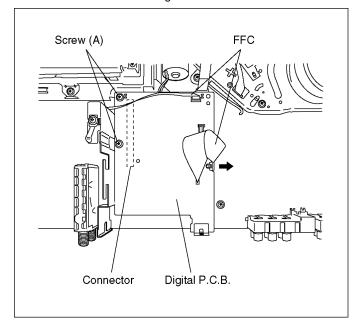
Caution:

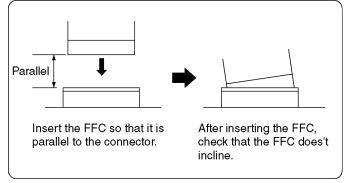
It is necessary to adjust PG shifter when replacing of Digital P.C.B.

Because FROM as IC56002 have adjustment data for PG shifter.

1. Remove 2 Screws (A) and 2 FFCs.

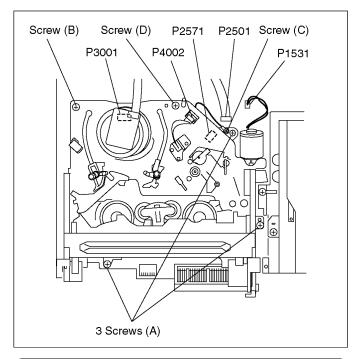
And lift up Digital P.C.B. slightly so to disconnect connectors to remove Digital P.C.B..

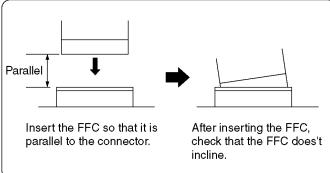




9.11. VHS Mechanism Unit

- 1. Disconnect 3 Connectors (P1531, P2501 and P4002).
- 2. Remove 3 Screws (A), Screw (B), Screw (C) and Screw (D).
- 3. Lift up VHS Mechanism Unit perpendicularly so to disconnect Connectors (P2571 and P3001).

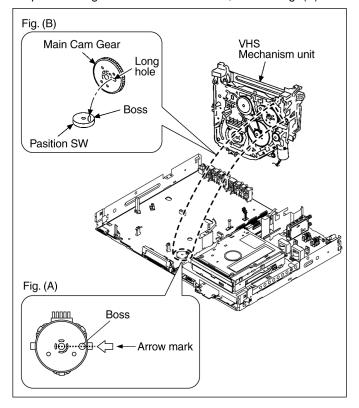




Note:

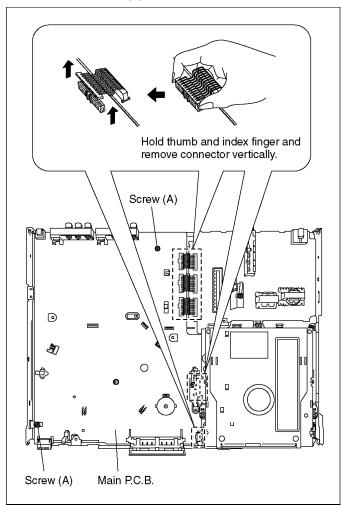
9.11.1. Caution for attaching VHS Mechanism Unit

- 1. Because Position SW should be set to "Eject Position", refer to fig.(A) and set the position switch so that the boss and arrow mark come on a straight line.
- 2. Attach VHS Mechanism Unit so that Boss of Position SW is put into long hole of Main Cam Gear, refer to Fig. (B).



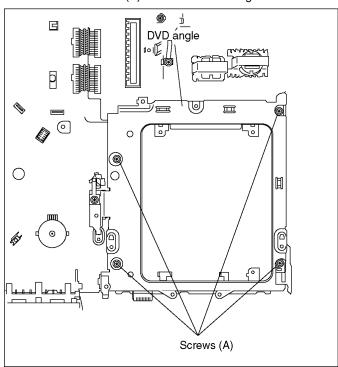
9.12. Main P.C.B.

- 1. Disconnect 4 Connectors.
- 2. Remove 2 Screws (A) and remove Main P.C.B.

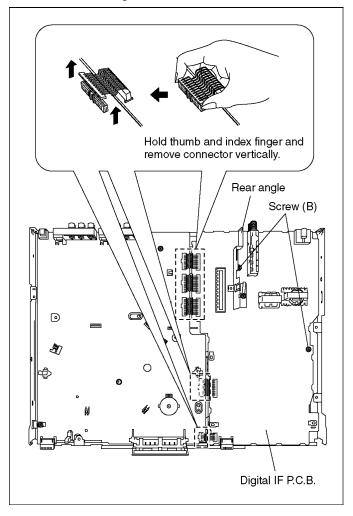


9.13. Digital I/F P.C.B.

1. Remove 4 Screws (A) to remove DVD angle.



- 2. Disconnect 4 Connectors.
- 3. Remove the Screw (B) to remove Digital I/F P.C.B. after removed Rear angle.



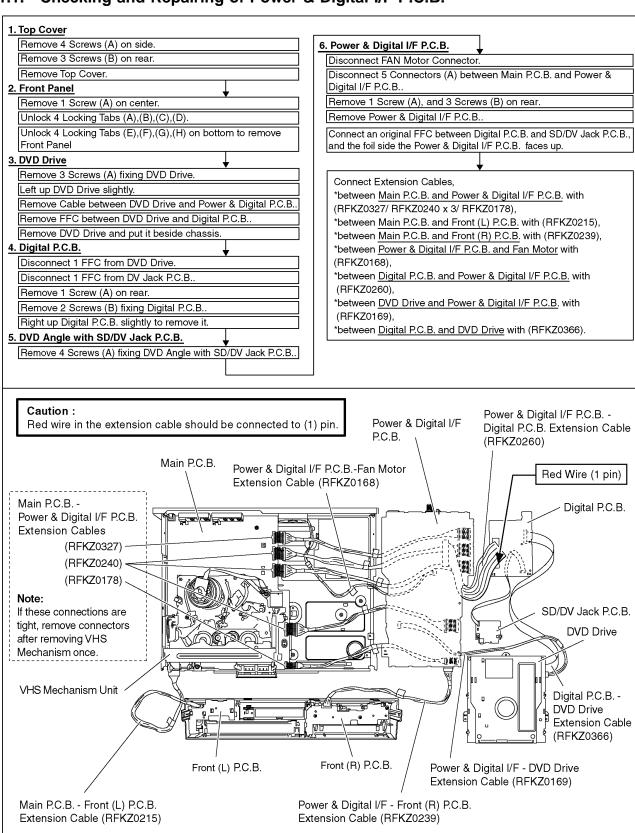
10 Measurements and Adjustments

10.1. Service Positions

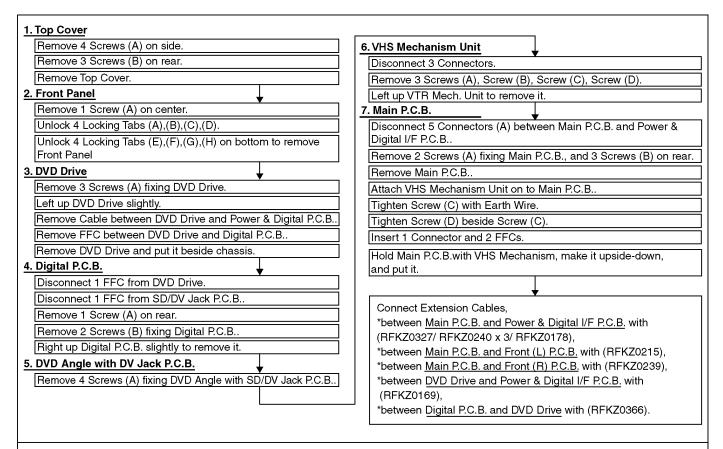
Note:

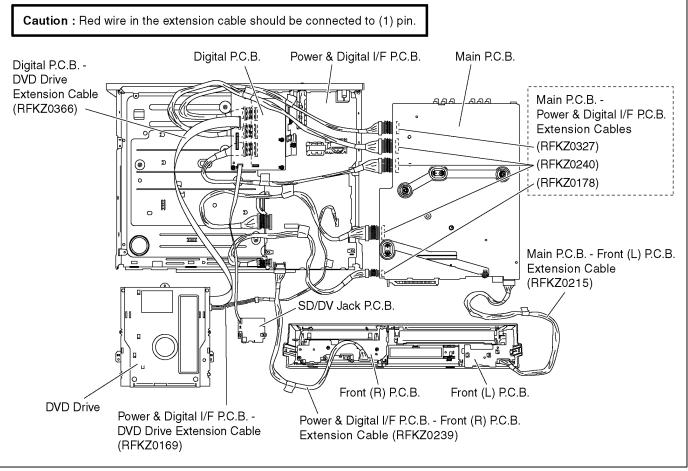
For description of the disassembling procedure, see the section 9.

10.1.1. Checking and Repairing of Power & Digital I/F P.C.B.

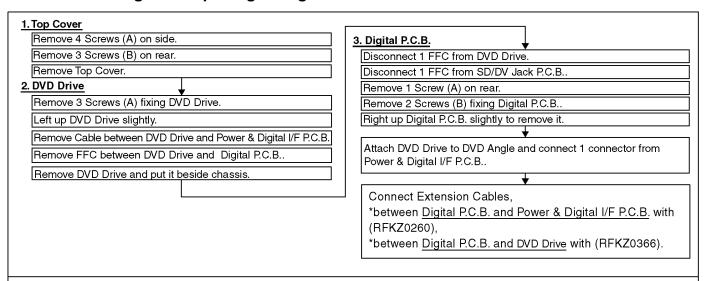


10.1.2. Checking and Repairing of Main P.C.B.

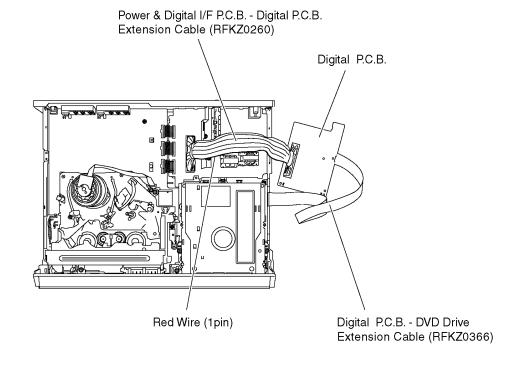




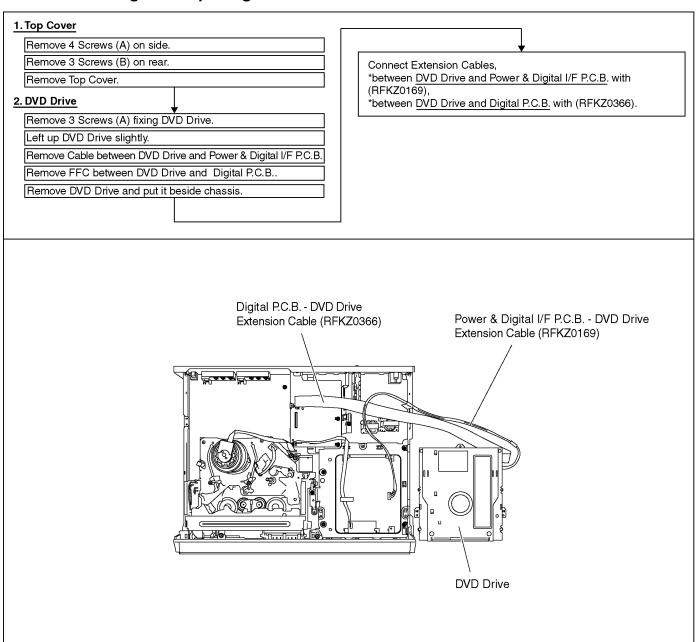
10.1.3. Checking and Repairing of Digital P.C.B.



Caution: Red wire in the extension cable should be connected to (1) pin.



10.1.4. Checking and Repairing of DVD



10.2. Caution for Replacing Parts

10.2.1. Notice after replacing Digital P.C.B.

[TM L1] is displayed, after replacing Digital P.C.B.

Once power off, and start up again.

10.2.2. Items that should be done after replacing parts

√: Necessary —: <u>Un</u>necessary

	Obtain and register a new registration code. (*Note1)	PG Shifter Automatic Adjustment	X-VALUE & LINEARITY (P2 and P3 Posts) Adjustment (*Note3)	Update Firmware
		(*Note2)	,	
DD Cylinder	_	✓	√	1
Main P.C.B.	√	-	_	I
IC6001	_		_	I
IC7501	_	-	_	ı
Digital P.C.B.	√	√	_	√
DVD Drive	_	_	_	√

*Note1:

Please will always pass the customer "Warning for Customers Who Use the DivX Video-on-Demand content." with the product and get it when you unavoidably exchange Digital P.C.B. (When the product is exchanged, it is the same.).

You must use print attached to service part (Digital P.C.B.) or must use copy of print below as "Warning for Customers who use the DivX Video-on-Demand content."

Information needed without fail for the customer for whom it is used continuing DivX Video-on-Demand Service to "Manual for the customer" is recorded.

Appendix:

- * Parts that memorize user's information are only Nor-Flash on Digital P.C.B..
- * The registration of Registration Code is possible for half a year up to 6 recorders up to 10 recorders a year.

 Replacement of Digital P.C.B. spends one of this.

Registration Code is memorized in Nor-Flash on Digital P.C.B..

If exchange Digital P.C.B., new registration Code differ from previous Registration Code will be generated.

In this case if your customer uses DivX Video-on-Demand service, he/she will no longer be able to play any content that he/she purchased under that same registration code.

Therefore your customer will need to obtain and register the new registration code.

*Copy this page and cut on the dotted line and give the lower half to your customer.

Warning for Customers who use the DivX Video-on-Demand content.

- 1. The registration code has been changed for the repair of the product or the product exchange.
- 2. Obtain and register a new registration code, otherwise you will no longer be able to play DivX Video-on-Demand content.
- 3. Follow the procedure on the DivX Video-on-Demand web site to register at http://vod.divx.com/
 - * If you do not use the DivX Video-on-Demand content, please ignore this warning.

DMR-EZ47VP / DMR-EZ475VP

*Note2:

PG Shifter Automatic Adjustment Procedure

	F	PROCEDURE	F.I.P. DISPLAY			
Turn on the Service M	2131 2111					
1. Set Drive Select to	00000					
for more than 3 secor						
Activate the Service N	<u></u>					
2. Press the [STOP] a	20000					
Put it in PG adjustme		0.000				
3. Press the EJECT k	2 00					
Set it adjustment No.						
4. Press the CH UP k	2 100					
Insert the alignment c	assette tape (VFM8080HQFP).				
5. The PG Shifter Adj	. ,	· · · · · · · · · · · · · · · · · · ·	2 100			
6. This display means	that adjustme	ent data was saved in memory.	For example:			
	055F					
	Success	Cassette tape is ejected automatically.	2 100			
	Error	NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)	F20			
Result		NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)	F21			
		NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is out of specification.	F22			
		NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)	F23			
Exit from Service Mod						
7. Press [STOP] and	10:00					
* Then the FIP becom						
	(Normal Indication)					

*Note3:

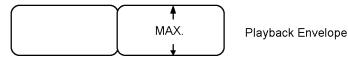
X-VALUE & LINEARITY (P2 and P3 Posts) Adjustment Procedure

- 1. Set the Auto Tracking to off.
 - (1) Set Drive Select to VHS and press the [STOP] and [EJECT] keys simultaneously for more than 3 seconds to enter Service Mode.
 - (2) Press [STOP] and [EJECT] keys simultaneously twice to activate Service Mode 2, and then Auto-Tracking is turned off.
- 2. Perform the X-VALUE ADJUSTMENT

X-VALUE ADJUSTMENT

- 1. After turning off the Auto tracking, playback the alignment Tape and press [CH UP] and [CH DOWN] keys simultaneously to adjust the tracking to FIX value.
- 2. Adjust A/C Head Base so that the envelope becomes maximum level. (It is described on "5-2. Tape Interchangeability Adjustment" in "R4 Mechanism" that is separated volume.)

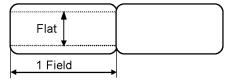
Alignment Tape	VFM8080HQFP		
Test Point of Playback Envelope	TW3001 (or TW4502)		



LINEARITY ADJUSTMENT

- 1. After turning off the Auto tracking, playback the alignment Tape and press [CH UP] and [CH DOWN] keys simultaneously to adjust the tracking to FIX value.
- 2. Adjust the LINEARITY so that the envelope is flat when moving tracking to (+) and (-) directions.

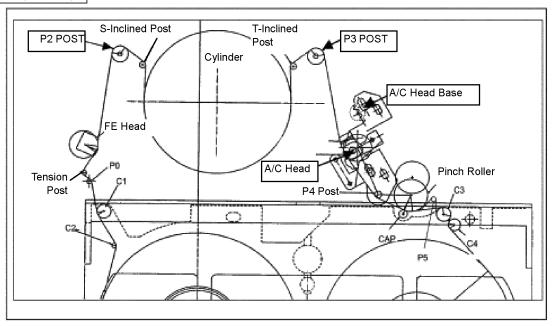
Alignment Tape	VFM8080HQFP		
Test Point of Playback Envelope	TW3001 (or TW4502)		



Playback Envelope

Main symptoms and Adjustment point

Envelope	Post Name	Adjustment Method
K	P2 Post	Turn P2 Post counter-clockwise (Approx. 1/2 revolution)
	P2 Post	Turn P2 Post clockwise (Approx. 1/4 revolution)
KA	P3 Post	Turn P3 Post clockwise (Approx. 1/2 revolution)
	P3 Post	Turn P3 Post counter-clockwise (Approx. 1/4 revolution)
	P2 Post P3 Post	Turn P2 Post clockwise (Less than 1 revolution) Turn P3 Post counter-clockwise (Less than 1revolution)



Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check		
1	Turn on the power, and confirm items pointed out.	Items pointed out should reappear.		
2	Insert RAM disc.	The Panasonic RAM disc should be recognized.		
3	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the picture, sound or operation.		
4	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the picture, sound or operation. *Panasonic DVD-RAM disc should be used when recording and playback.		
5	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the picture, sound or operation.		
6	Models with SD Card Slot or DV Input Jack: In case of that the trouble is caused by SD card and/or DV terminal.	Models with SD Card or DV Input Jack; 1) SD Card: Check to be able to display and copy the picture. 2) DV terminal: Check to be able to record from DVC.		
7	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [UPD OK] appears in the FL displays.		

Caution for updating Firmware

Firmware of this model is compulsively changed even if new version has already been installed in product.

UNFORMAT in not displayed.

Please confirm firm version of the product before update, to avoid making down version.

step1. Confirm firm version of the product

a). Press [CH UP] + [OPEN/CLOSE] + [REC] buttons of product simultaneously for 5 seconds to turn it in Service Mode.

b). Press [0] [2] of the remote controller.

Region code/ MAIN firm version/ TIMER firm version/ DRIVE firmware version/ ROM Correction version is displayed

step2. Compare Main firm version and Drive firm version of FL display with versions of updating disc.

For Example:

Versions of updating disc		Versions of FL display		Judgment of updating	Descriptions	
Main firm	Drive firm	Main firm	Drive firm	disc		
3090U5	S126	3090U5	S155		If this updating disc was used, the product will be made down version.	
3010C5	S155	3040C5	S155	NG	Download latest firmware from TSN System, and burn it to CD-R or CD-RW. Update product with this downloaded latest firmware.	
3090U5	S155	3090U5	S126	ОК	If this updating disc was used, the	
3040C5	S155	3010C5	S155	OK .	product will be made up version.	

8 settings (return various settings and error information to their default values. The laser time is not included in this initialization)

Transfer [9][9] in the service mode setting, and initialize the service Make sure that [CLR] appears in the FL display. After checking it, turn the power off.

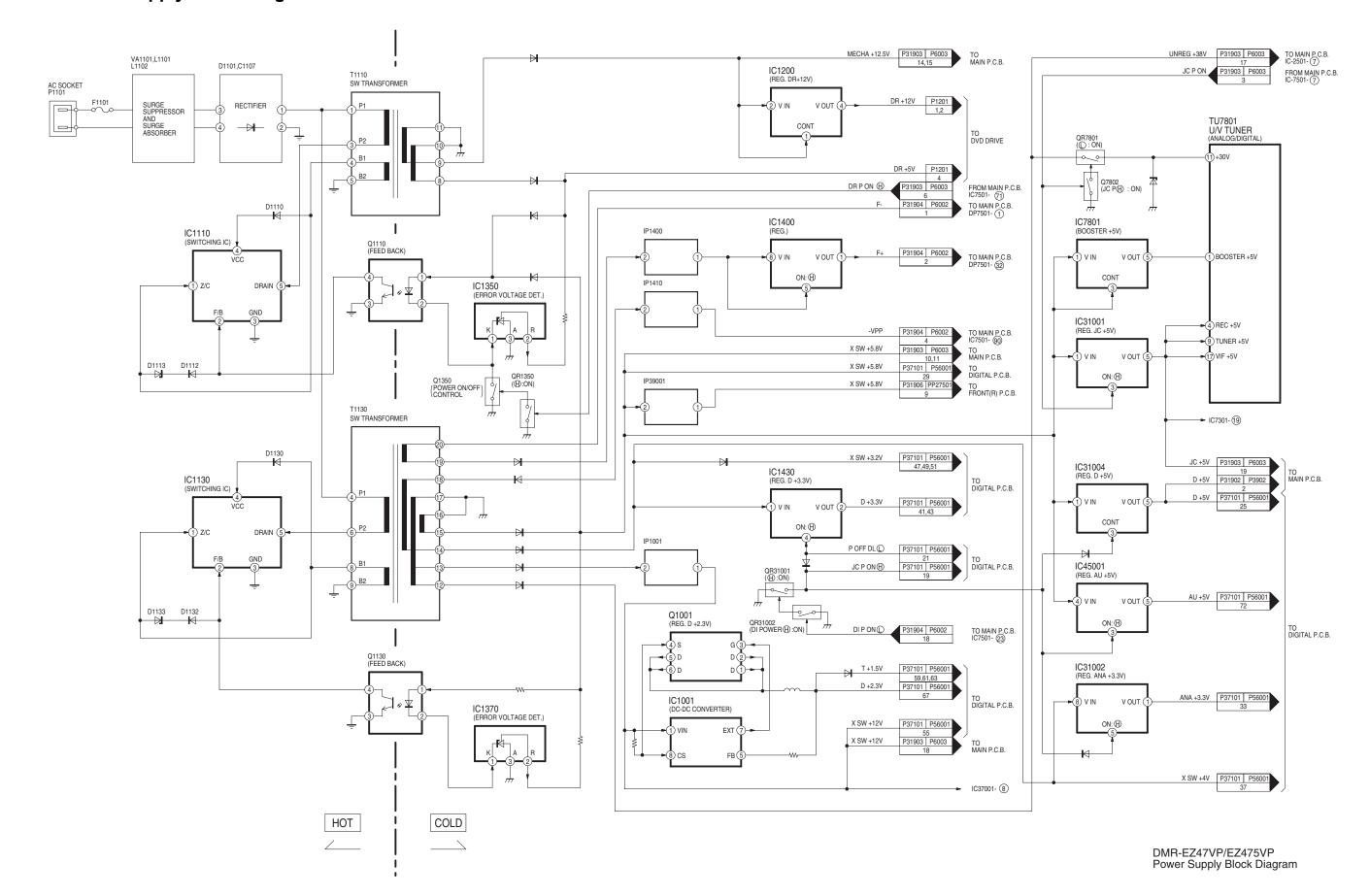
Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents	Check
	Block noise			Distorted sound	
	Crosscut noise			Noise (static, background noise, etc.)	
Picture	Dot noise		Sound	The sound level is too low.	
Picture	Picture disruption		Souria	The sound level is too high.	
	Not bright enough			The sound level changes.	
	Too bright				
	Flickering color				
	Color fading				

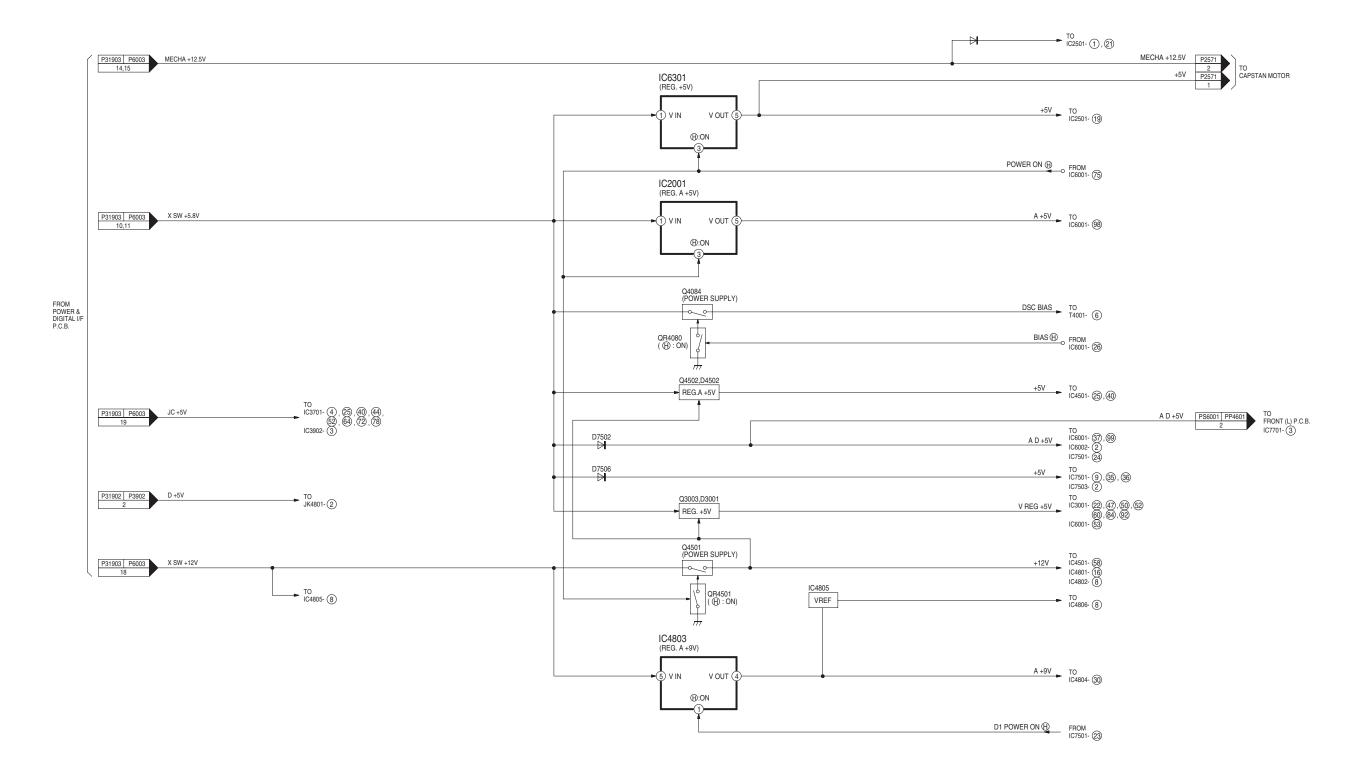
DMR-EZ47VP / DMR-EZ475VP

11 Block Diagram

11.1. Power Supply Block Diagram

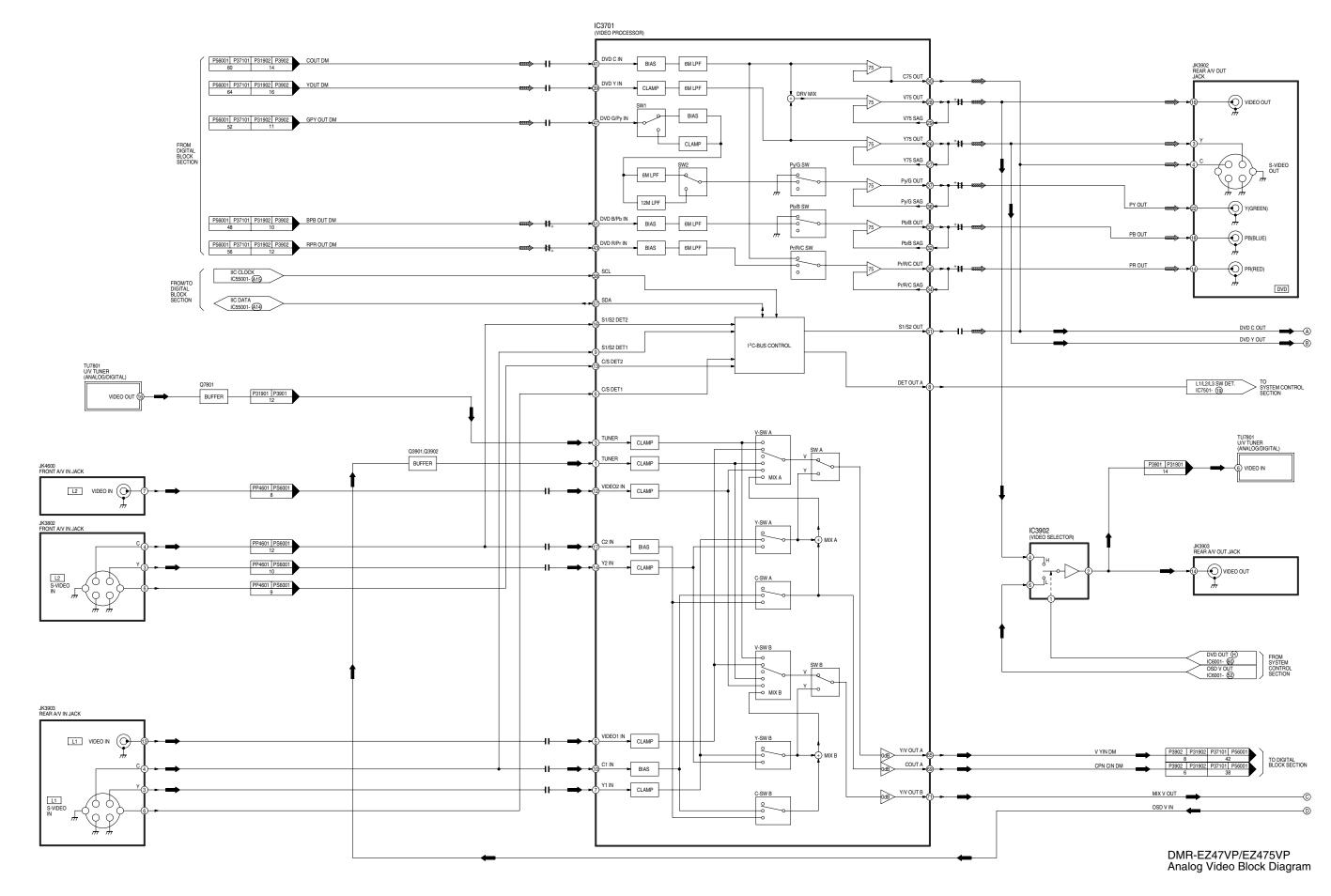


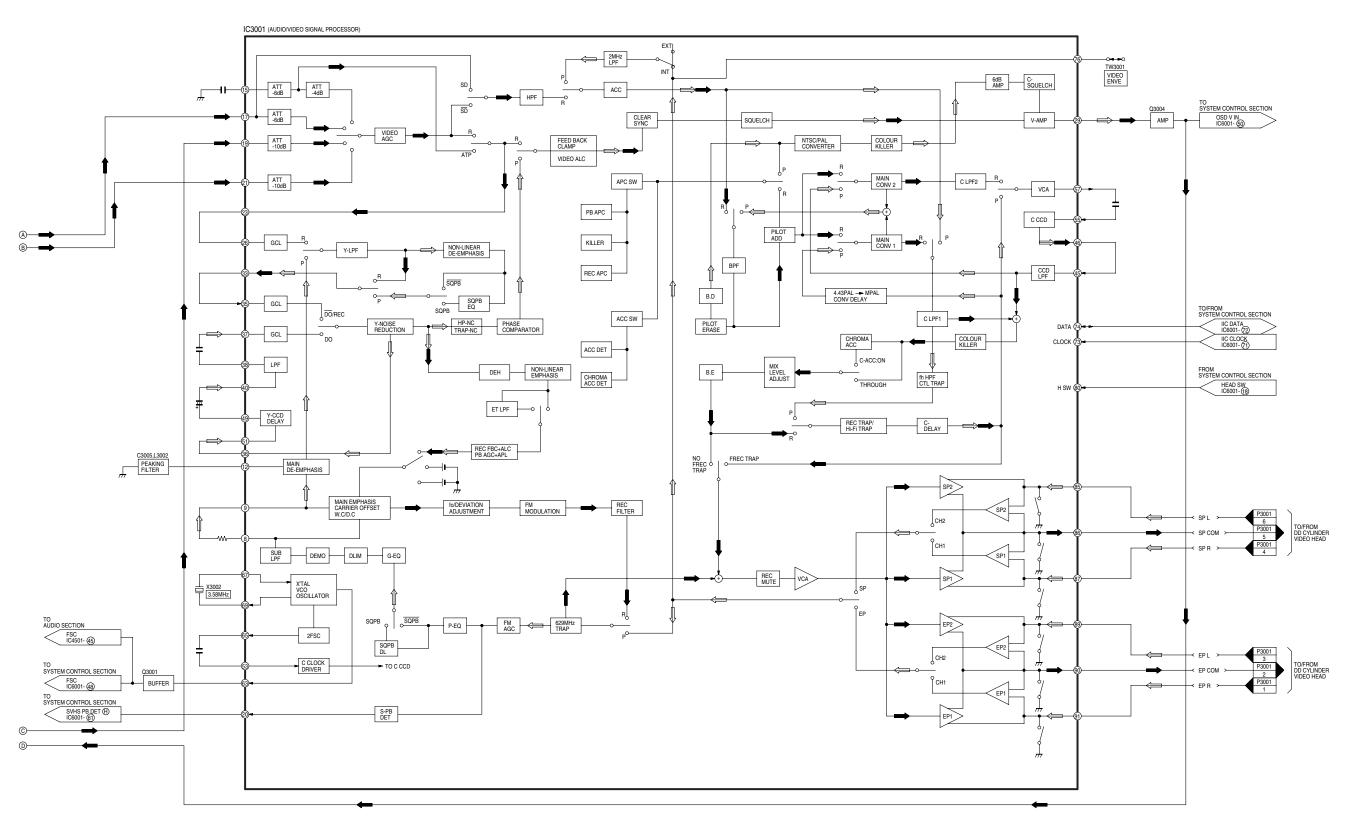
11.2. Main P.C.B. Regulator Block Diagram



DMR-EZ47VP/EZ475VP Main P.C.B. Regulator Block Diagram

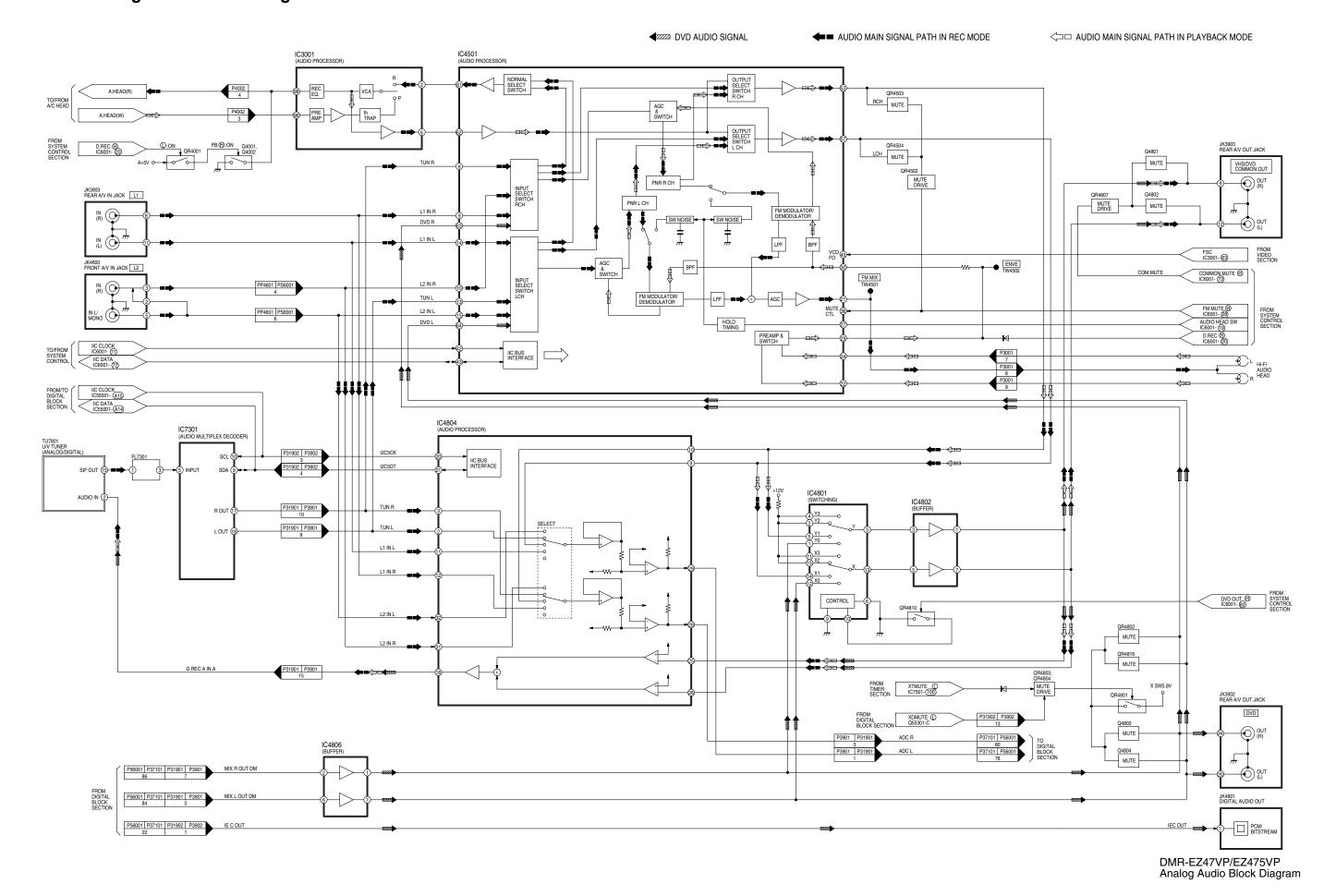
11.3. Analog Video Block Diagram



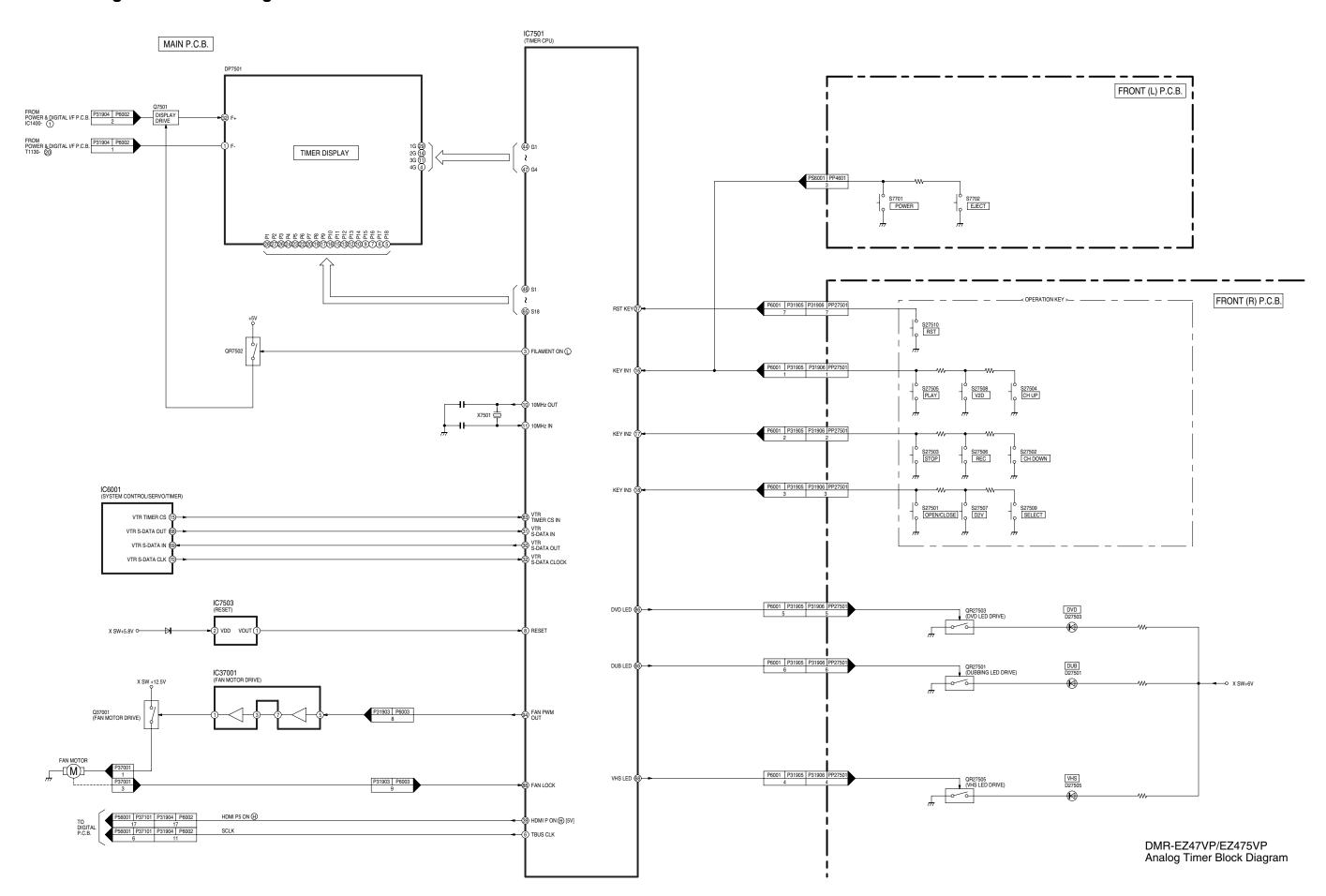


DMR-EZ47VP Analog Video Block Diagram DMR-EZ47VP/EZ475VP Analog Video Block Diagram

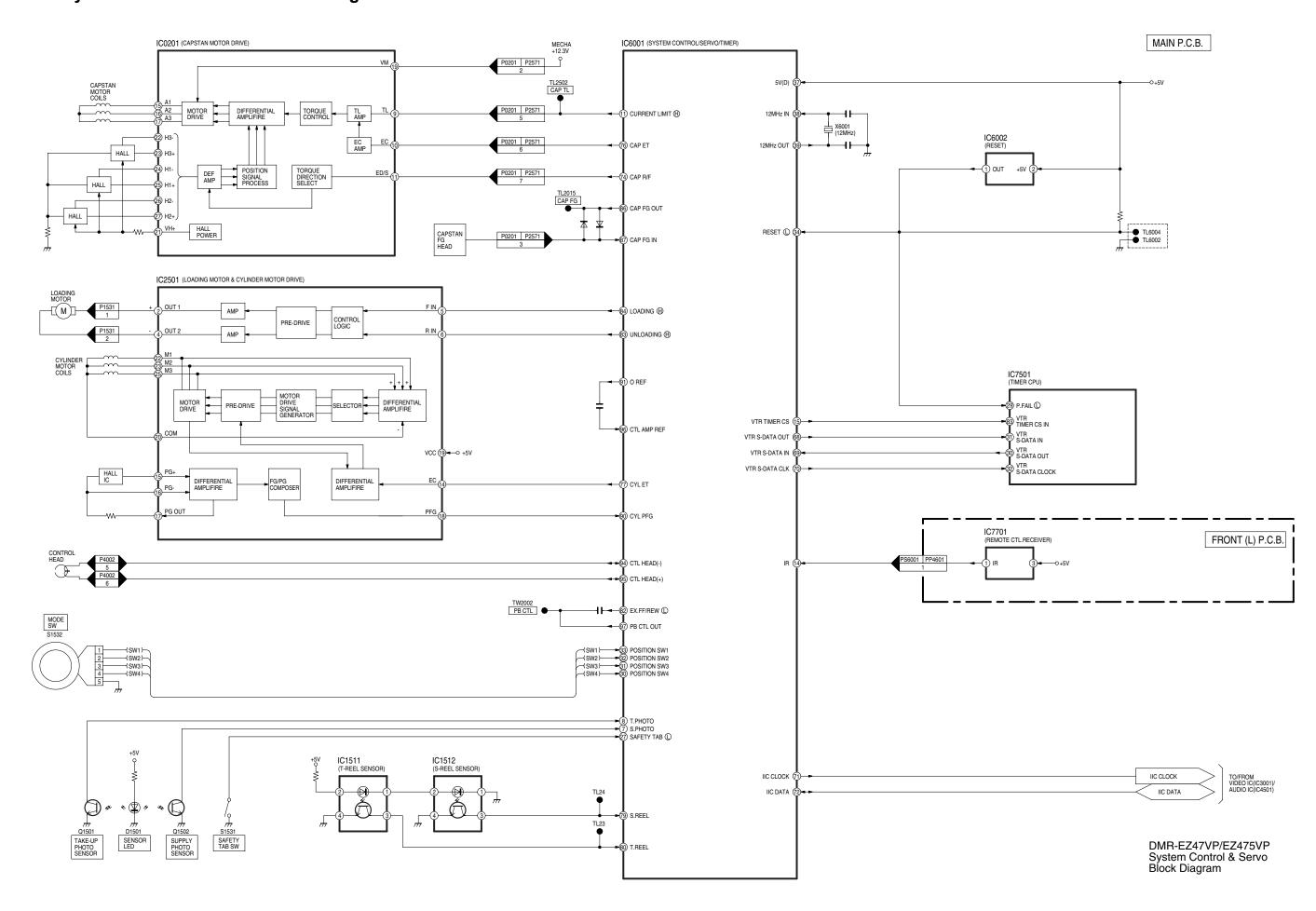
11.4. Analog Audio Block Diagram



11.5. Analog Timer Block Diagram



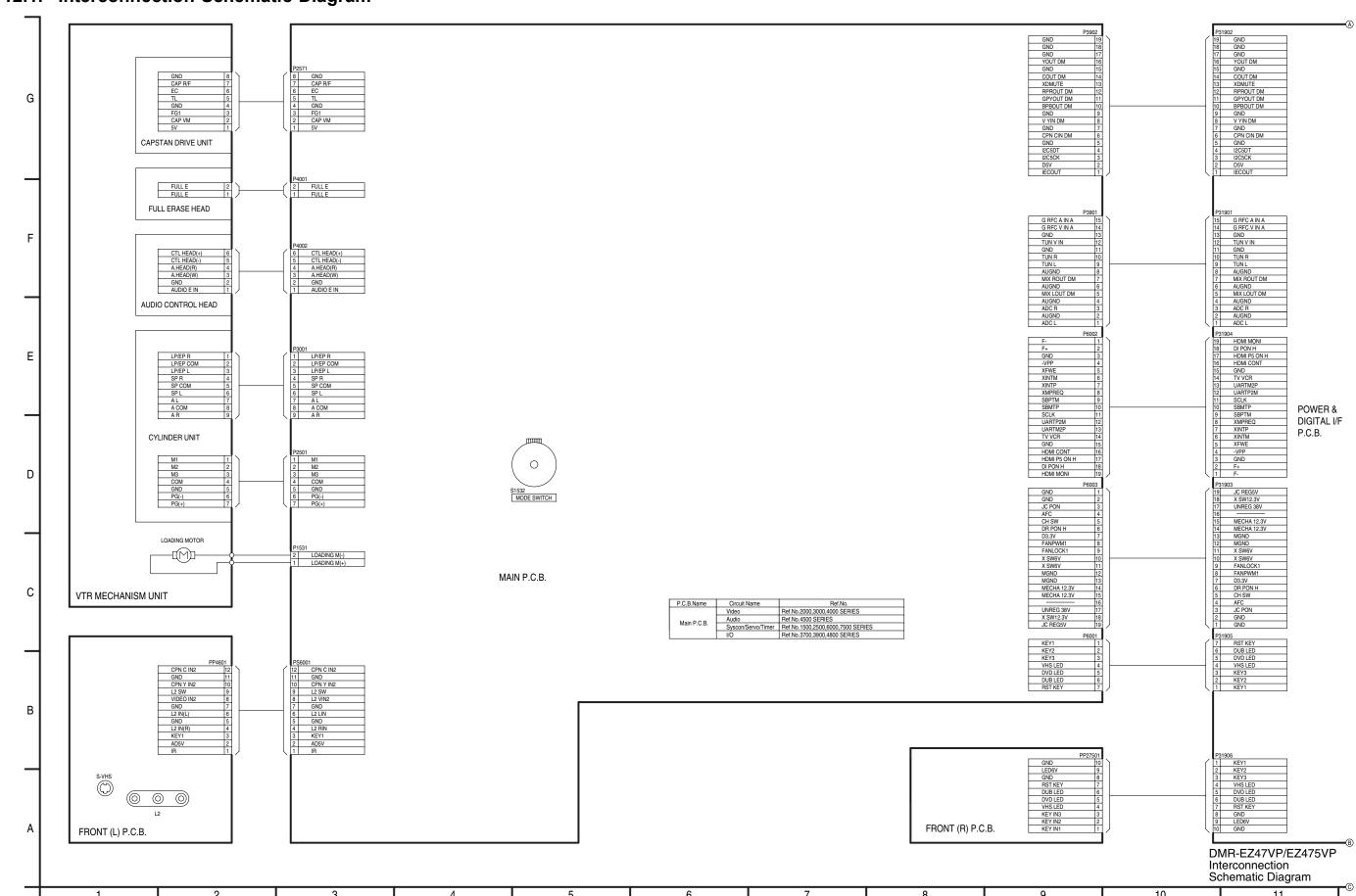
11.6. System Control & Servo Block Diagram

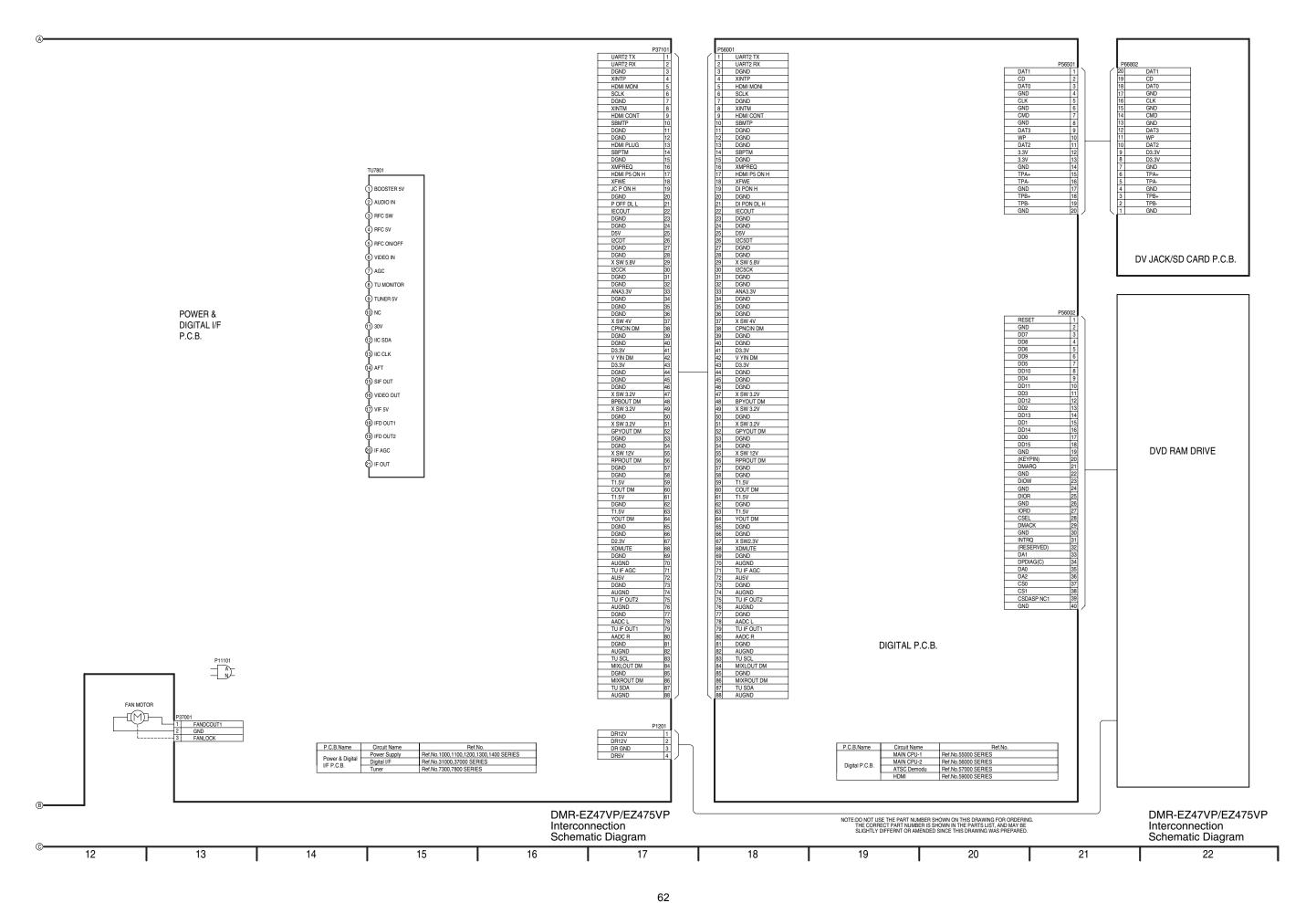


DMR-EZ47VP / DMR-EZ475VP

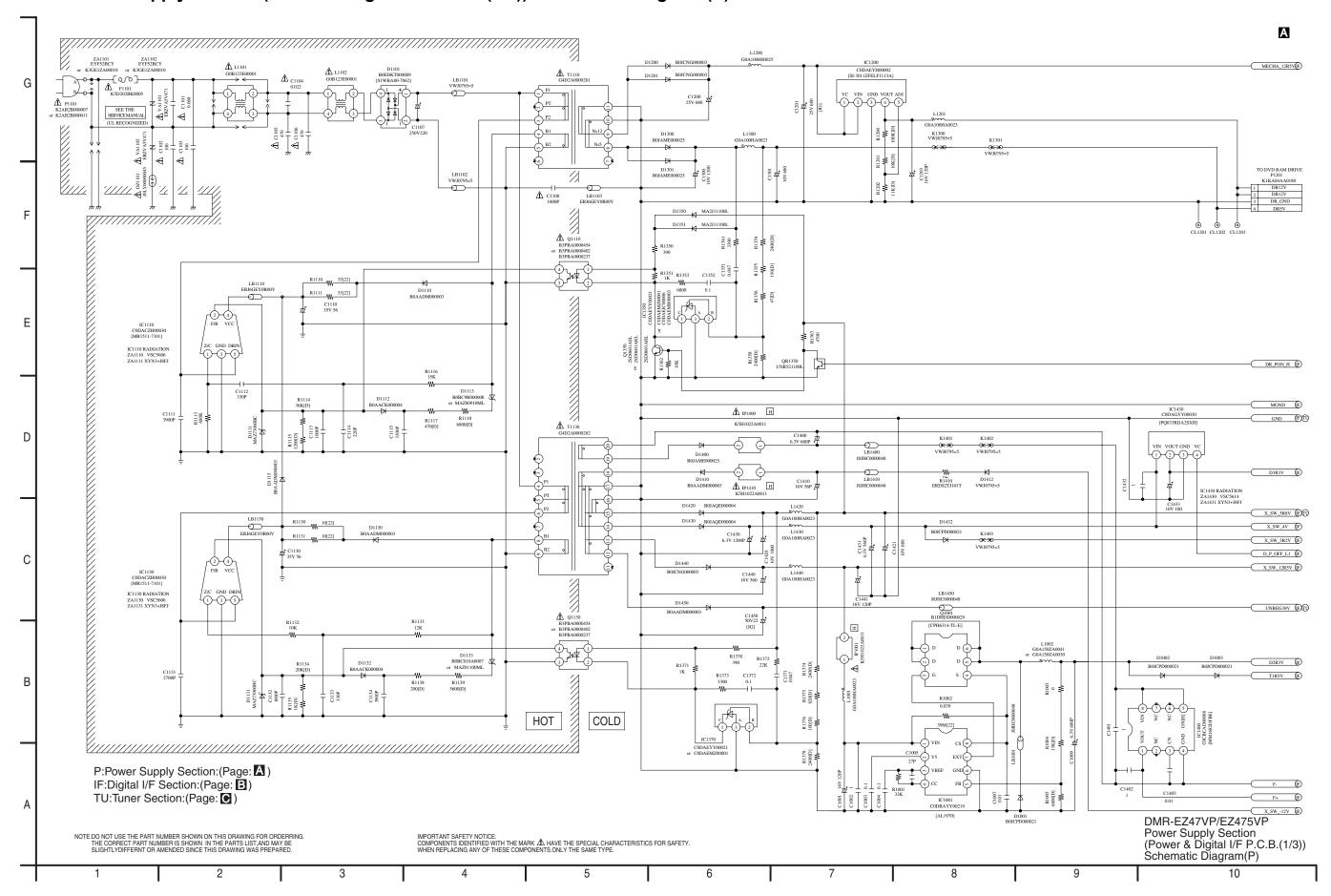
12 Schematic Diagram

12.1. Interconnection Schematic Diagram

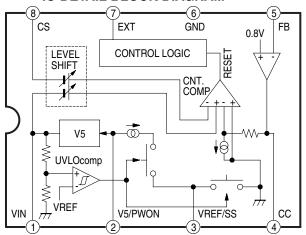




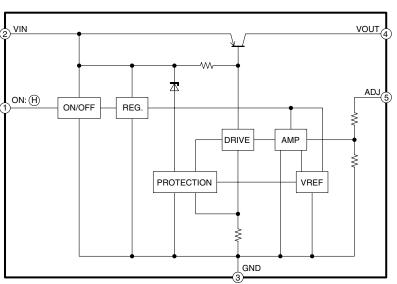
12.2. Power Supply Section (Power & Digital I/F P.C.B.(1/3)) Schematic Diagram (P)



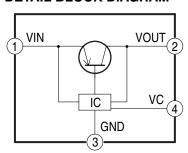
IC1001 D +2.3V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



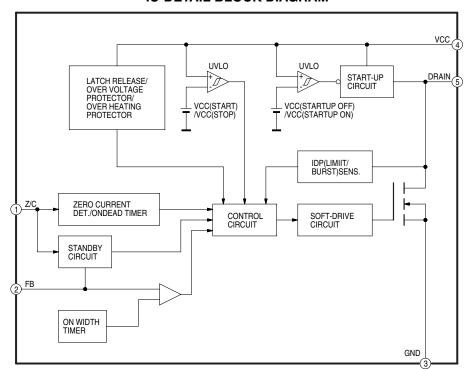
IC1200 DR +12V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



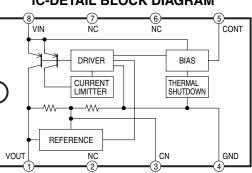
IC1430 D +3.3V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



IC1110,1130 SWITCHING IC IC-DETAIL BLOCK DIAGRAM

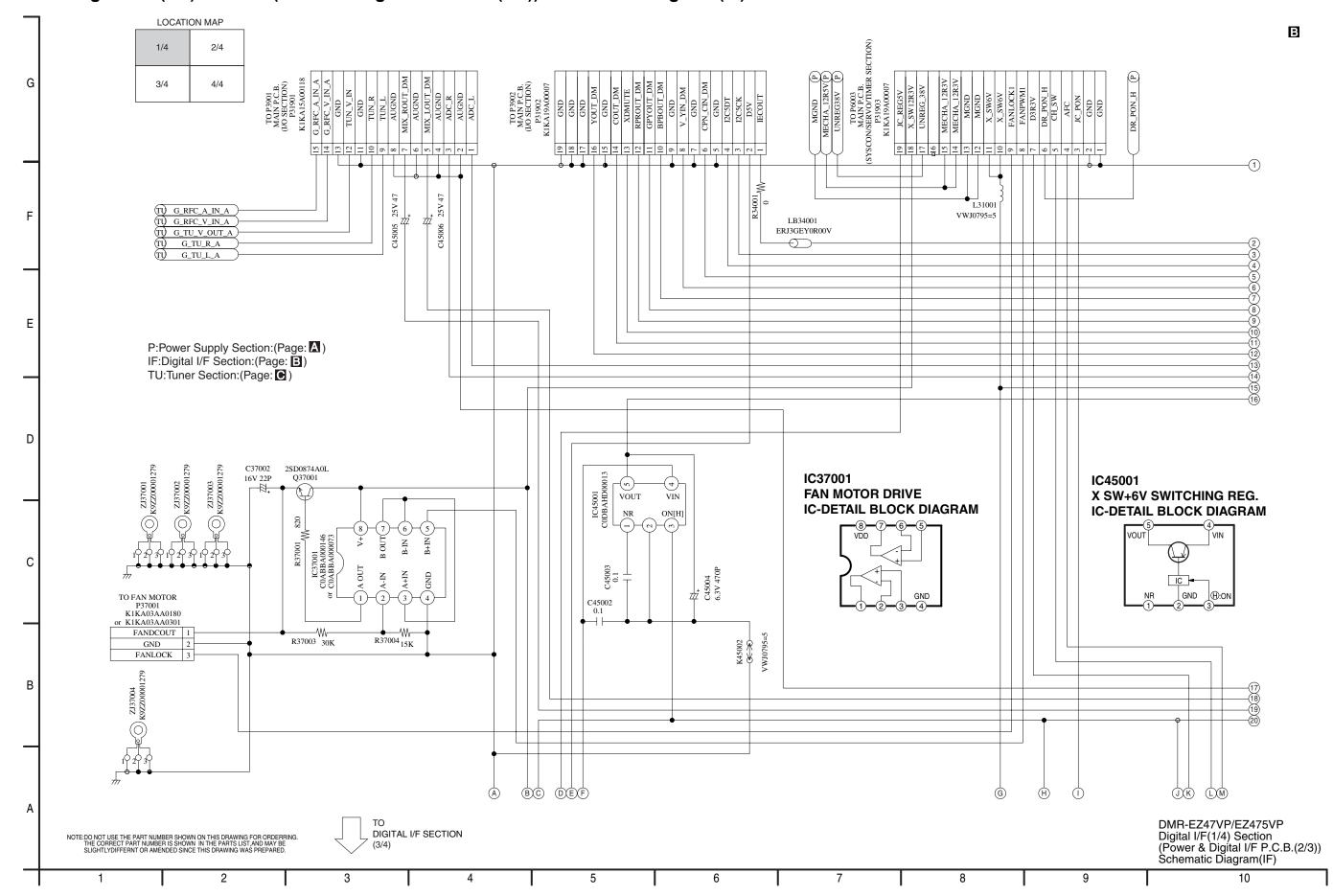


IC1400 F+ SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM

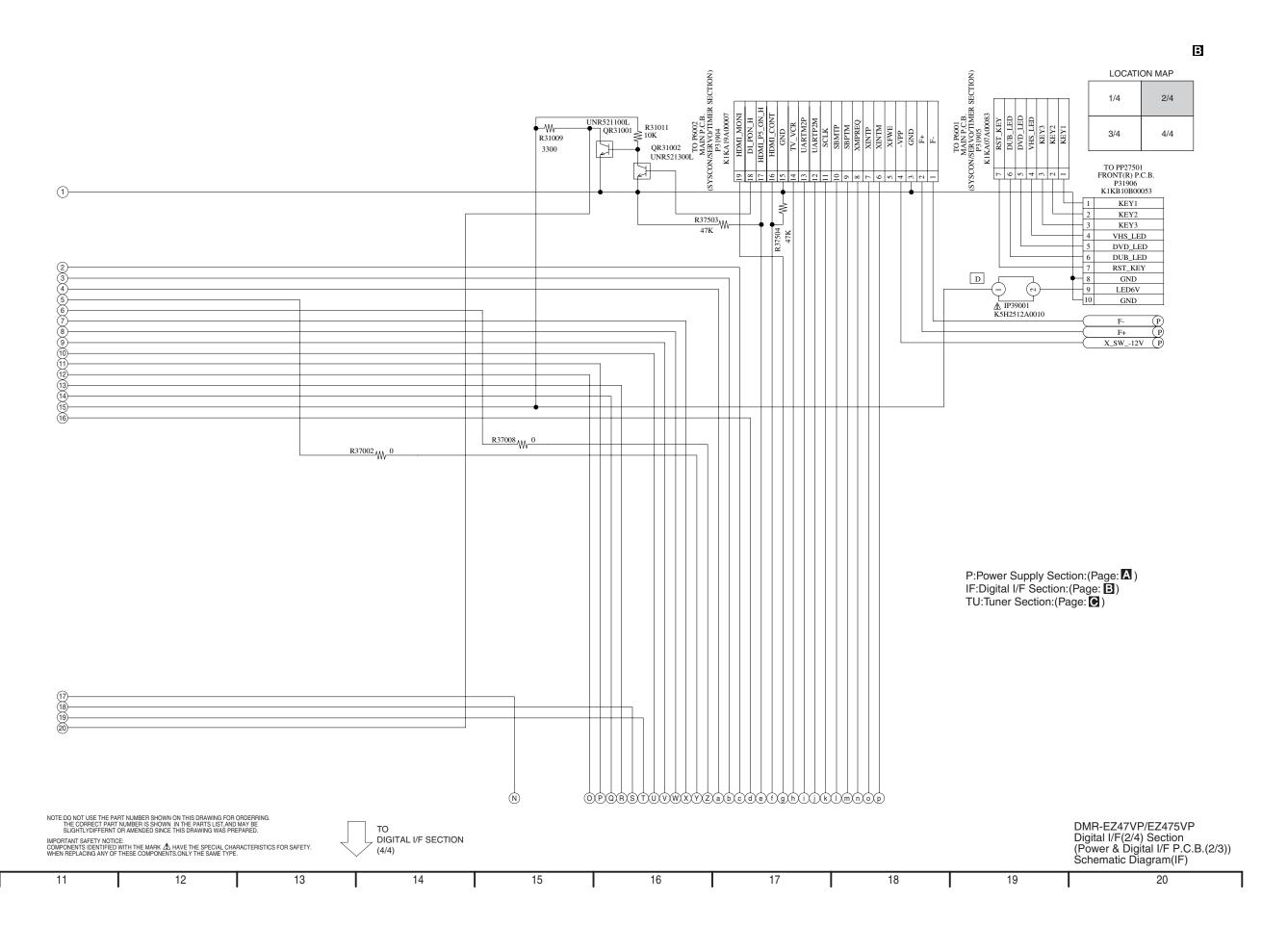


IC1001 Detail Block Diagram
IC1110 Detail Block Diagram
IC1130 Detail Block Diagram
IC1200 Detail Block Diagram
IC1400 Detail Block Diagram
IC1430 Detail Block Diagram
IC1430 Detail Block Diagram
DMR-EZ47VP/EZ475VP IC-Detail Block Diagram

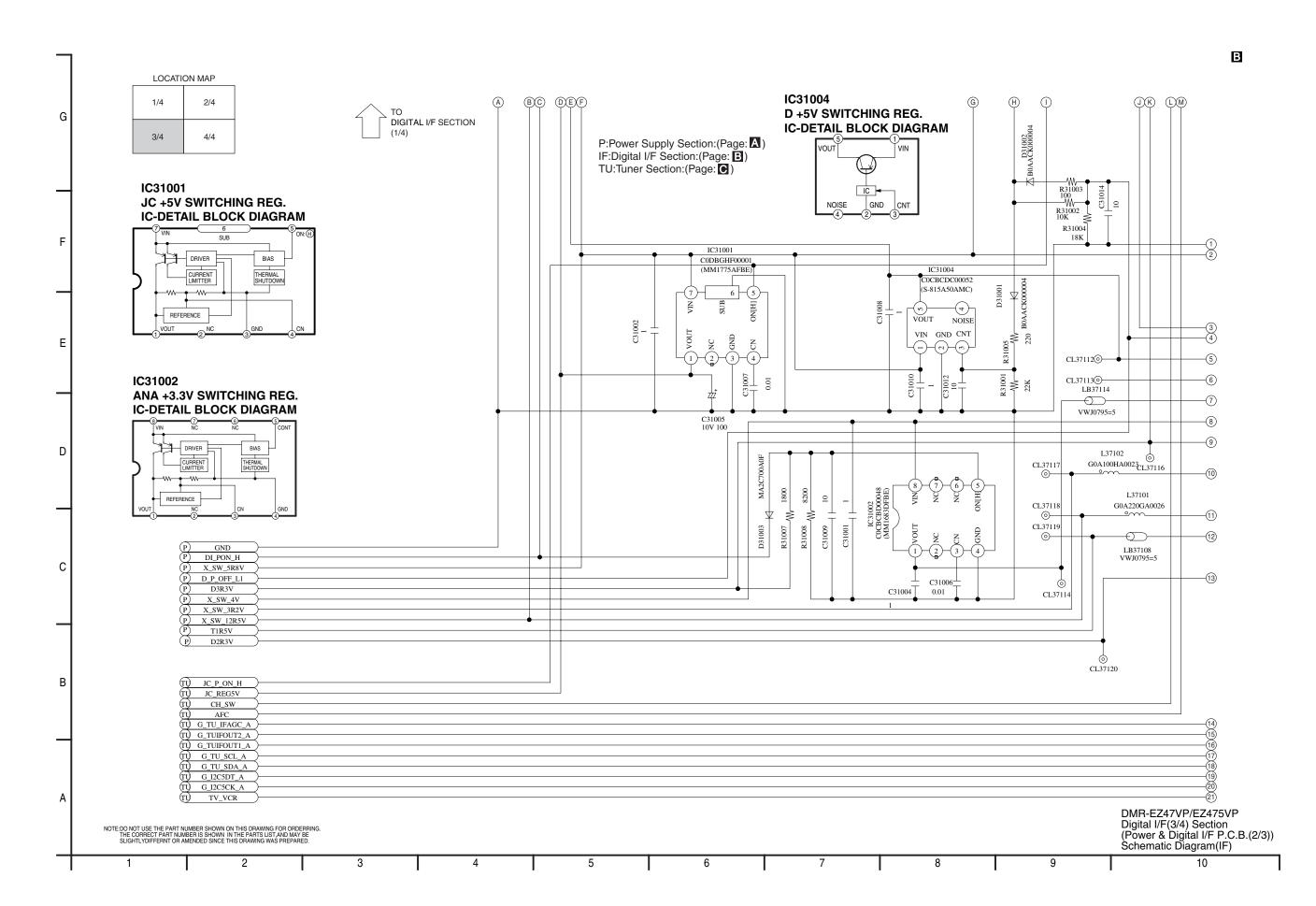
12.3. Digital I/F (1/4) Section (Power & Digital I/F P.C.B.(2/3)) Schematic Diagram (IF)

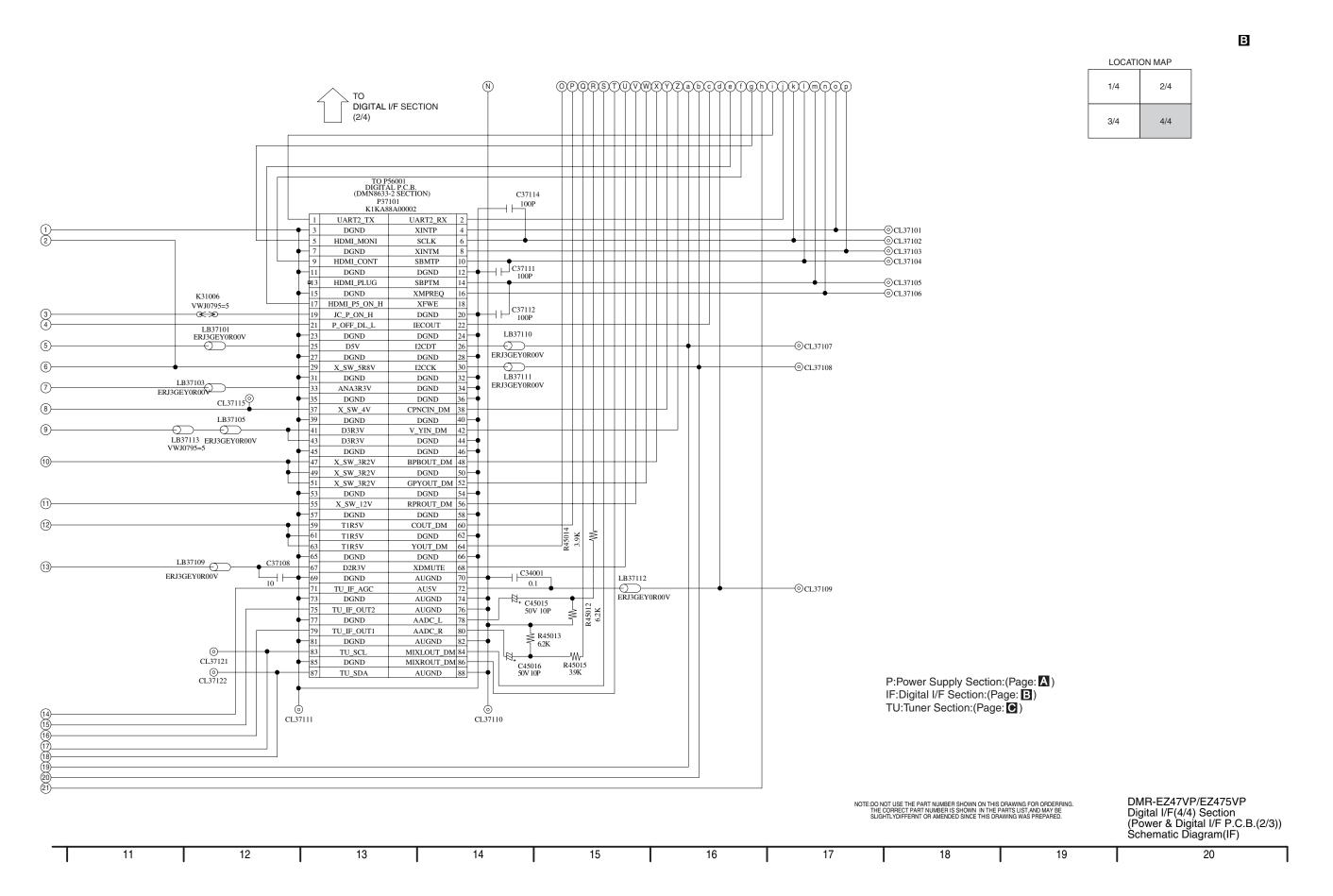


12.4. Digital I/F (2/4) Section (Power & Digital I/F P.C.B.(2/3)) Schematic Diagram (IF)

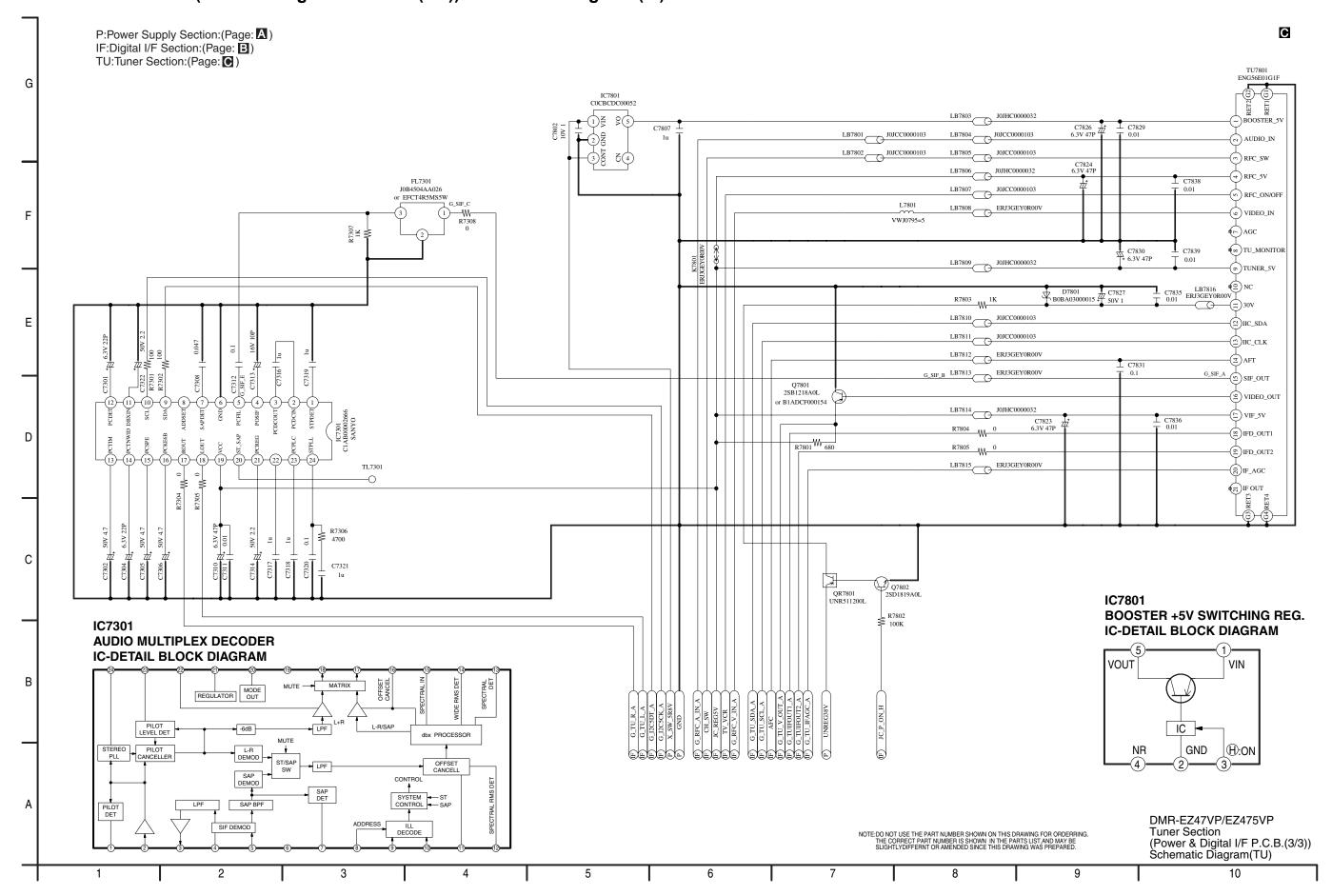


12.5. Digital I/F (3/4) Section (Power & Digital I/F P.C.B.(2/3)) Schematic Diagram (IF)

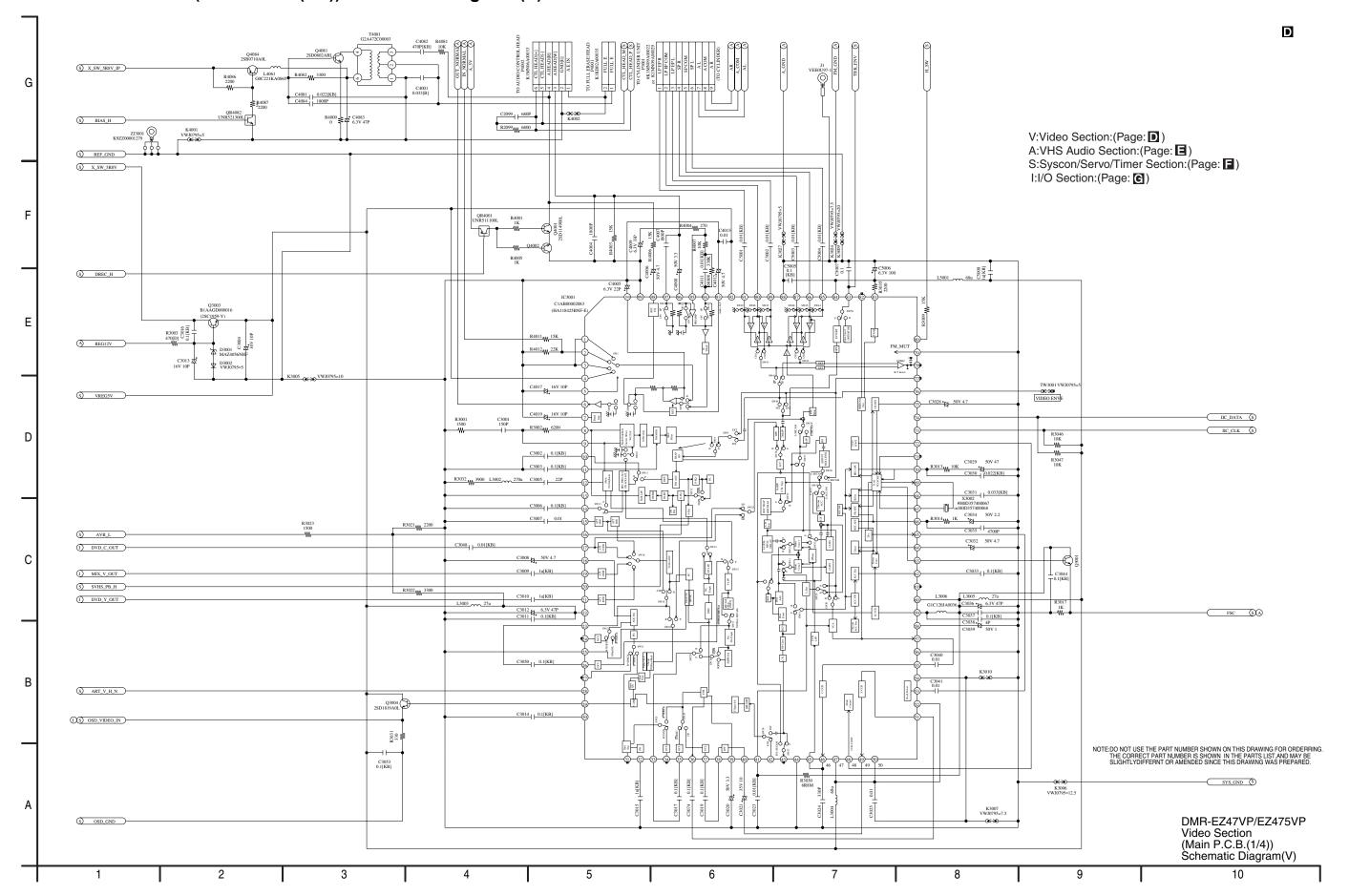




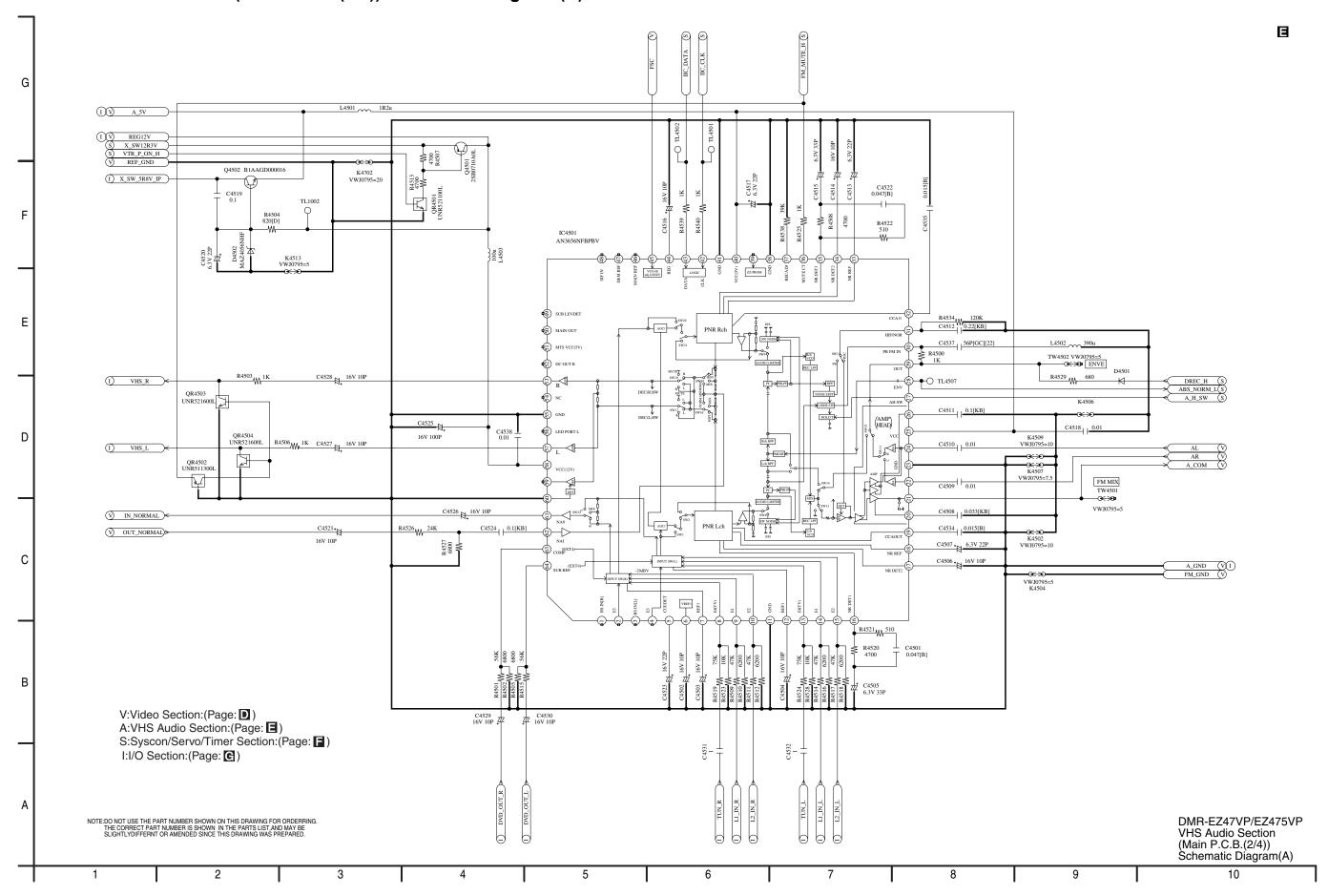
12.7. Tuner Section (Power & Digital I/F P.C.B.(3/3)) Schematic Diagram (IF)



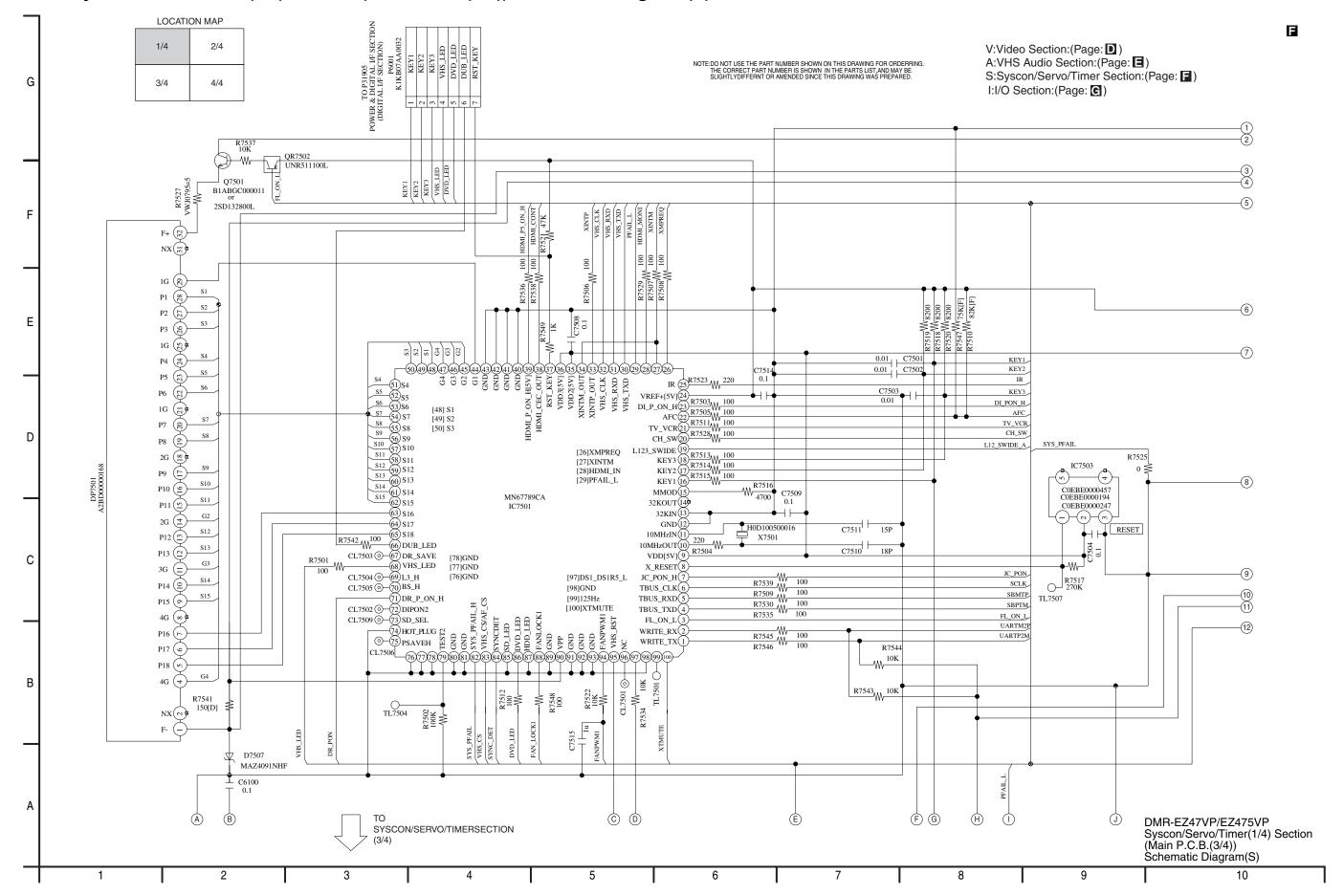
12.8. Video Section (Main P.C.B.(1/4)) Schematic Diagram (V)



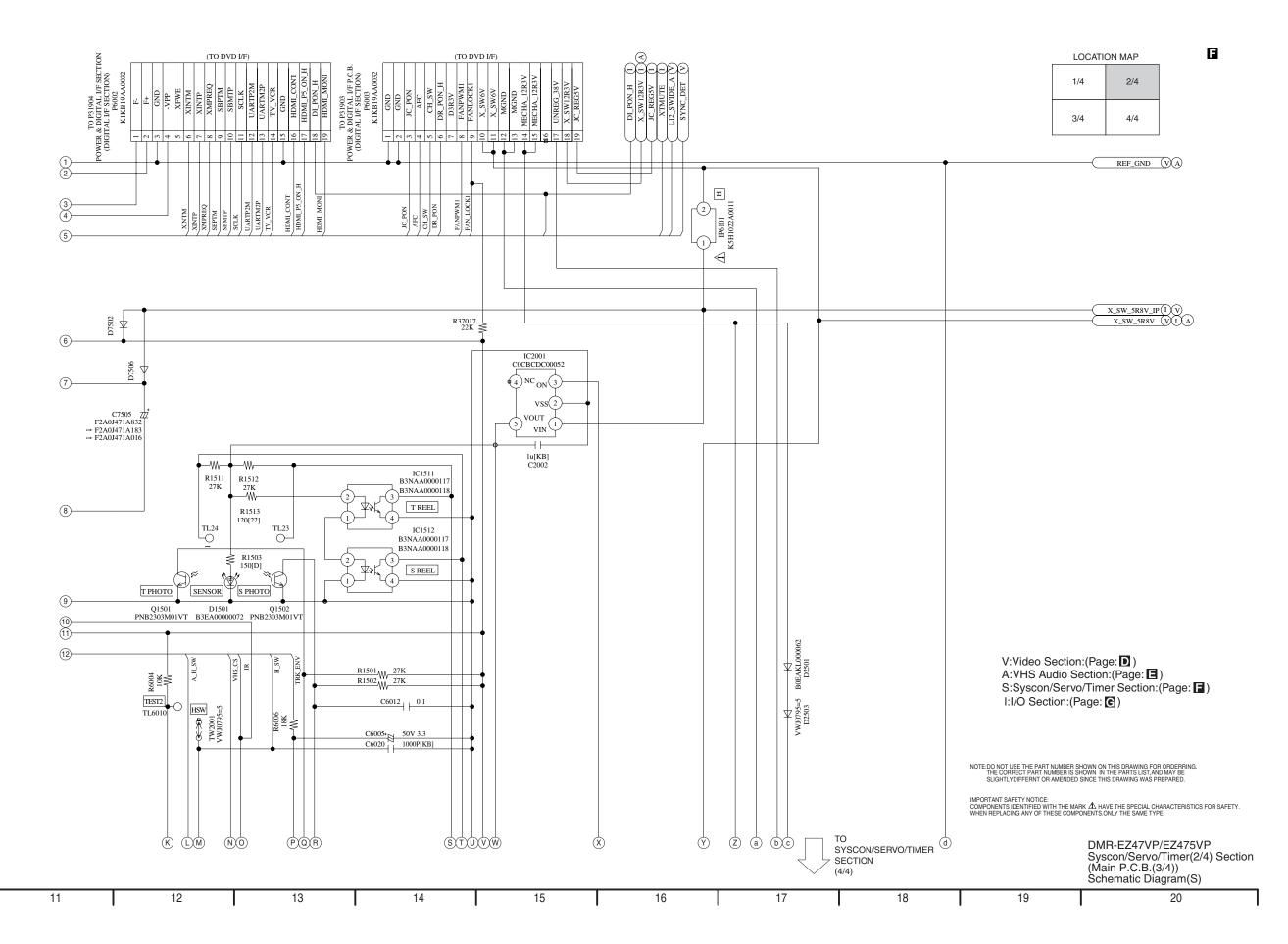
12.9. VHS Audio Section (Main P.C.B.(2/4)) Schematic Diagram (A)

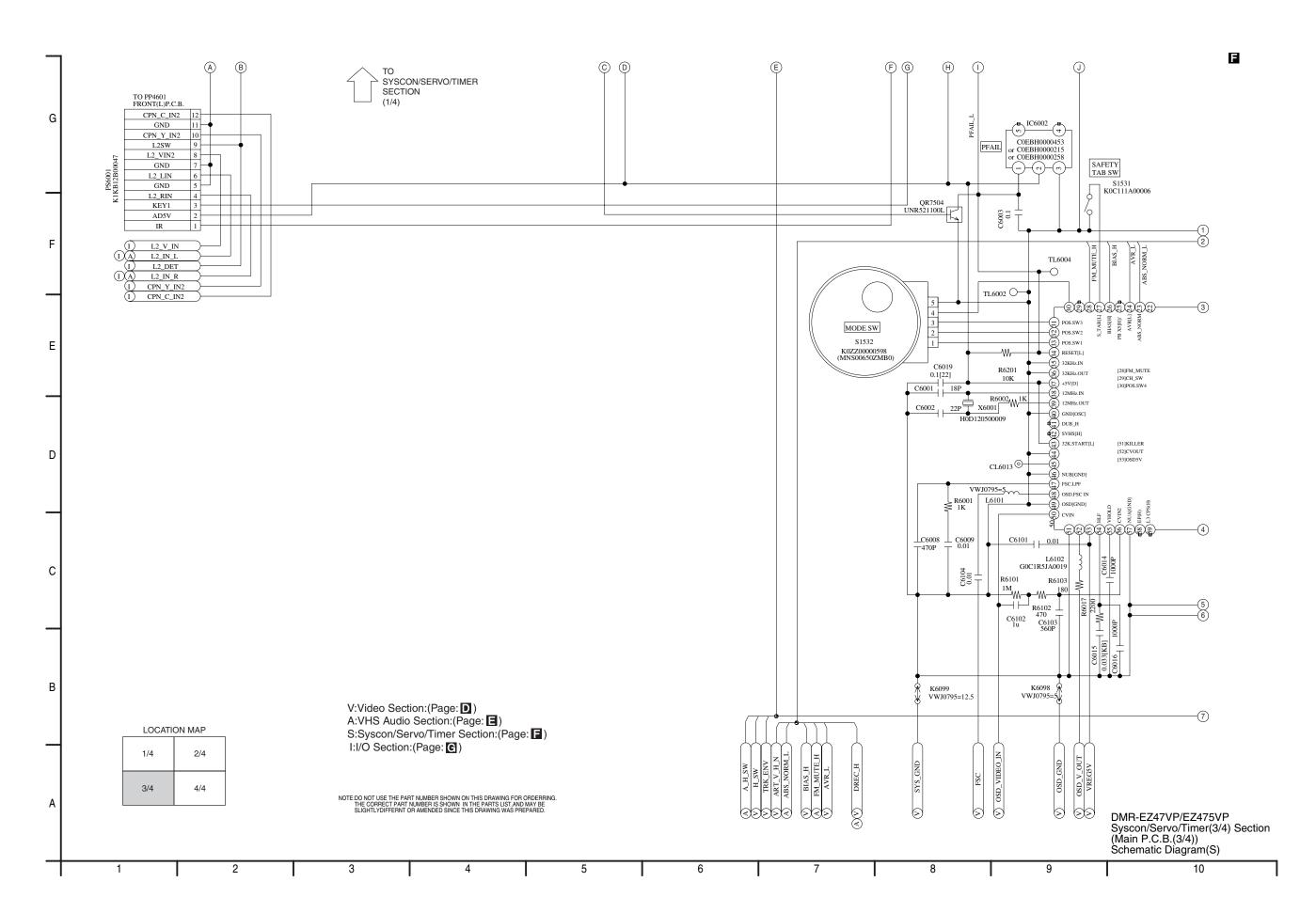


12.10. Syscon/Servo/Timer (1/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)

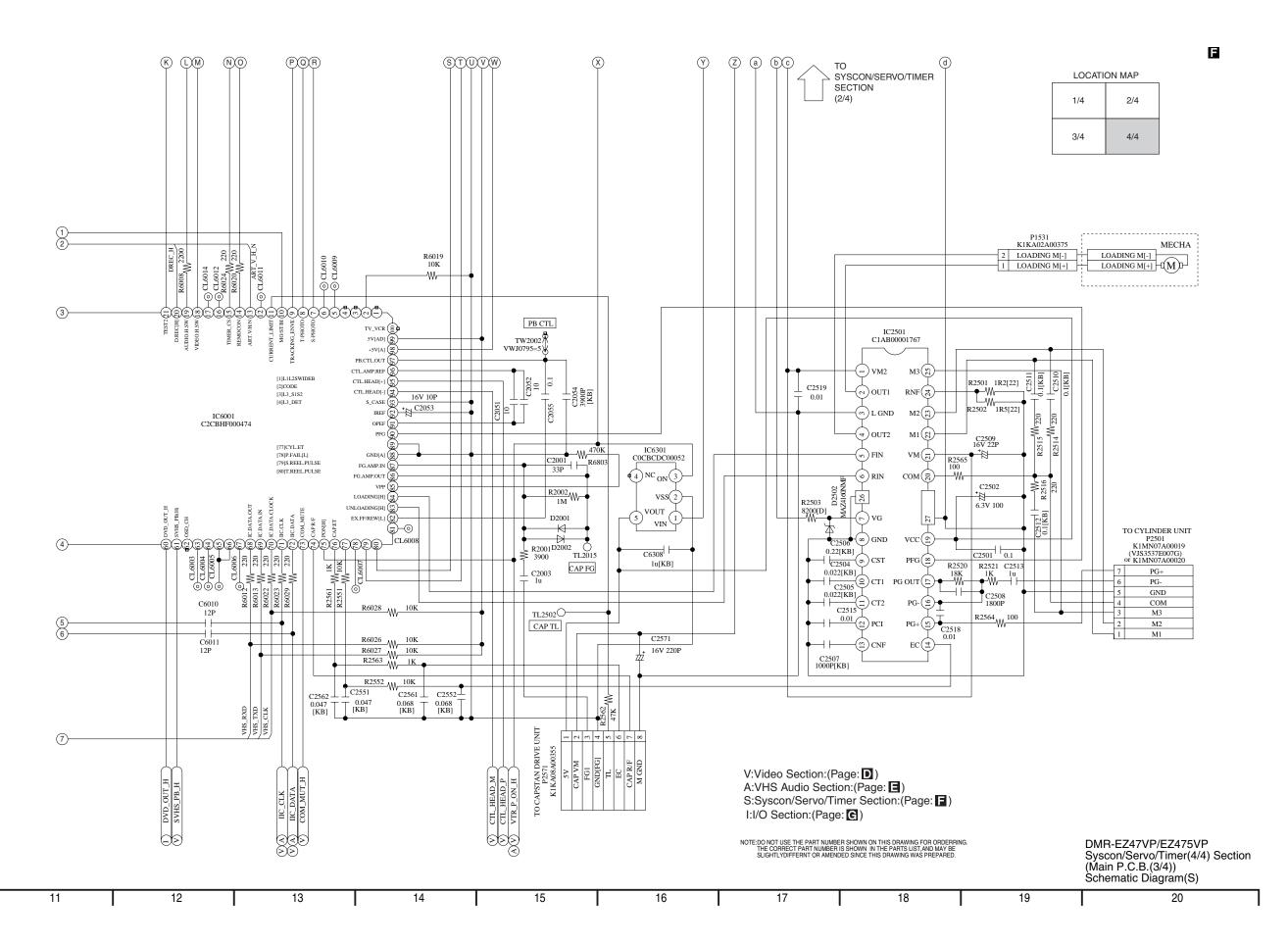


12.11. Syscon/Servo/Timer (2/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)

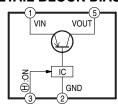




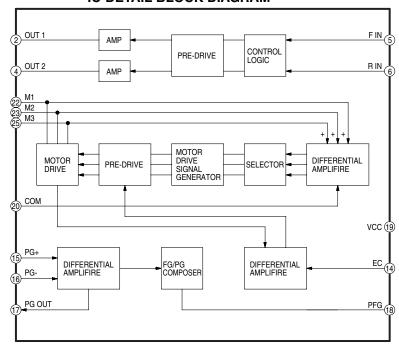
12.13. Syscon/Servo/Timer (4/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)



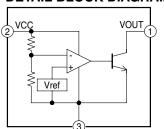
IC2001,6301 +5V SWITCHING REG. IC-DETAIL BLOCK DIAGRAM



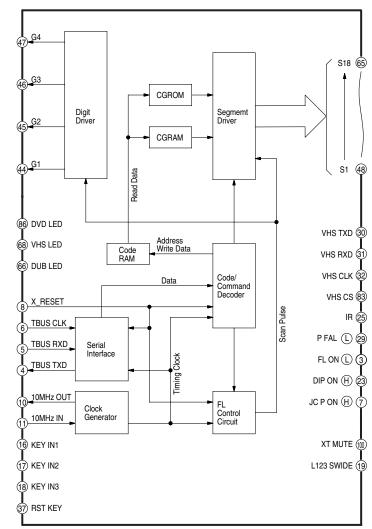
IC2501 LOADING/CYLINDER MOTOR DRIVE IC-DETAIL BLOCK DIAGRAM



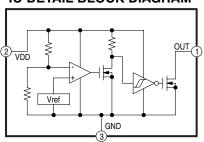
IC6002 RESET IC-DETAIL BLOCK DIAGRAM



IC7501 TIMER IC-DETAIL BLOCK DIAGRAM

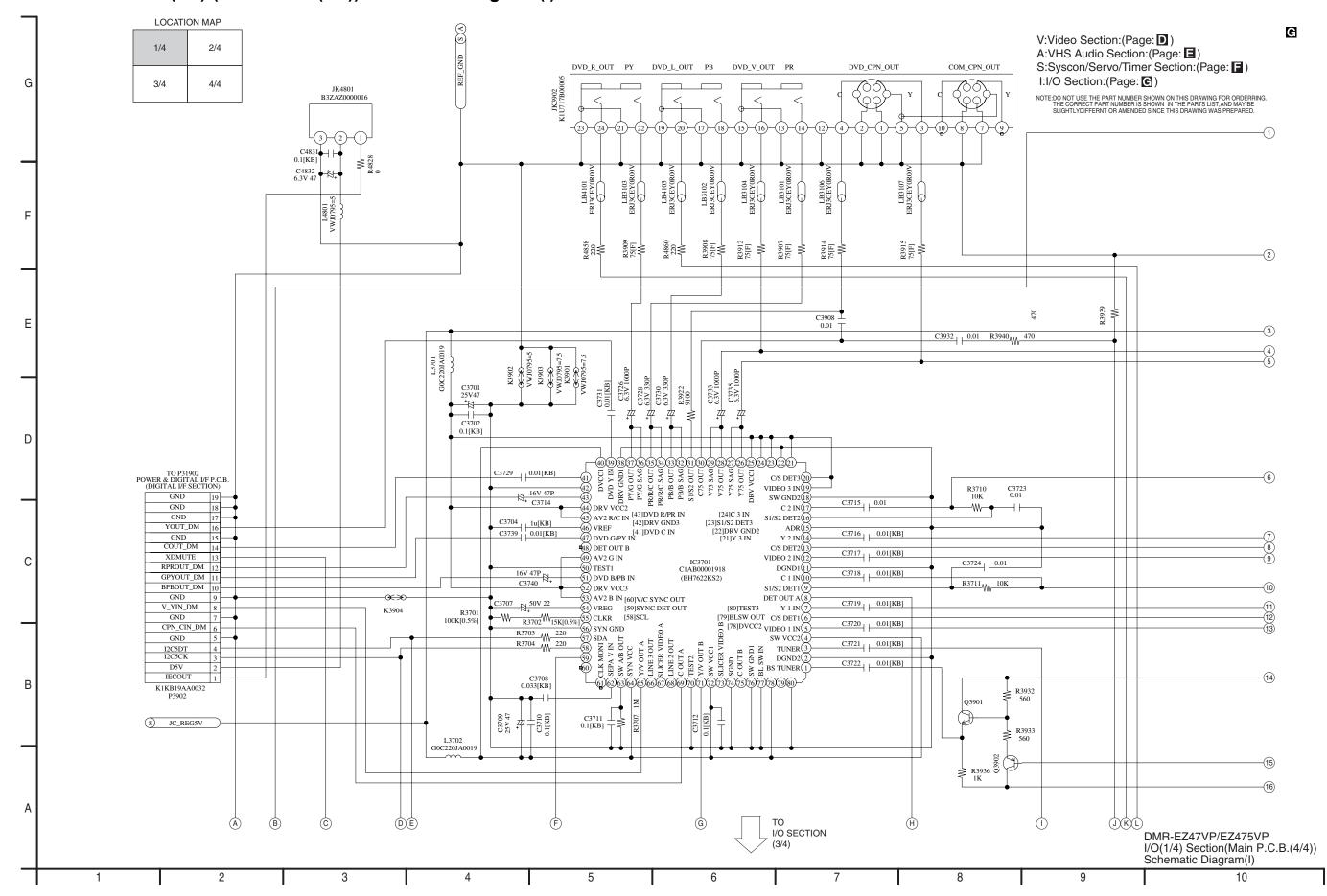


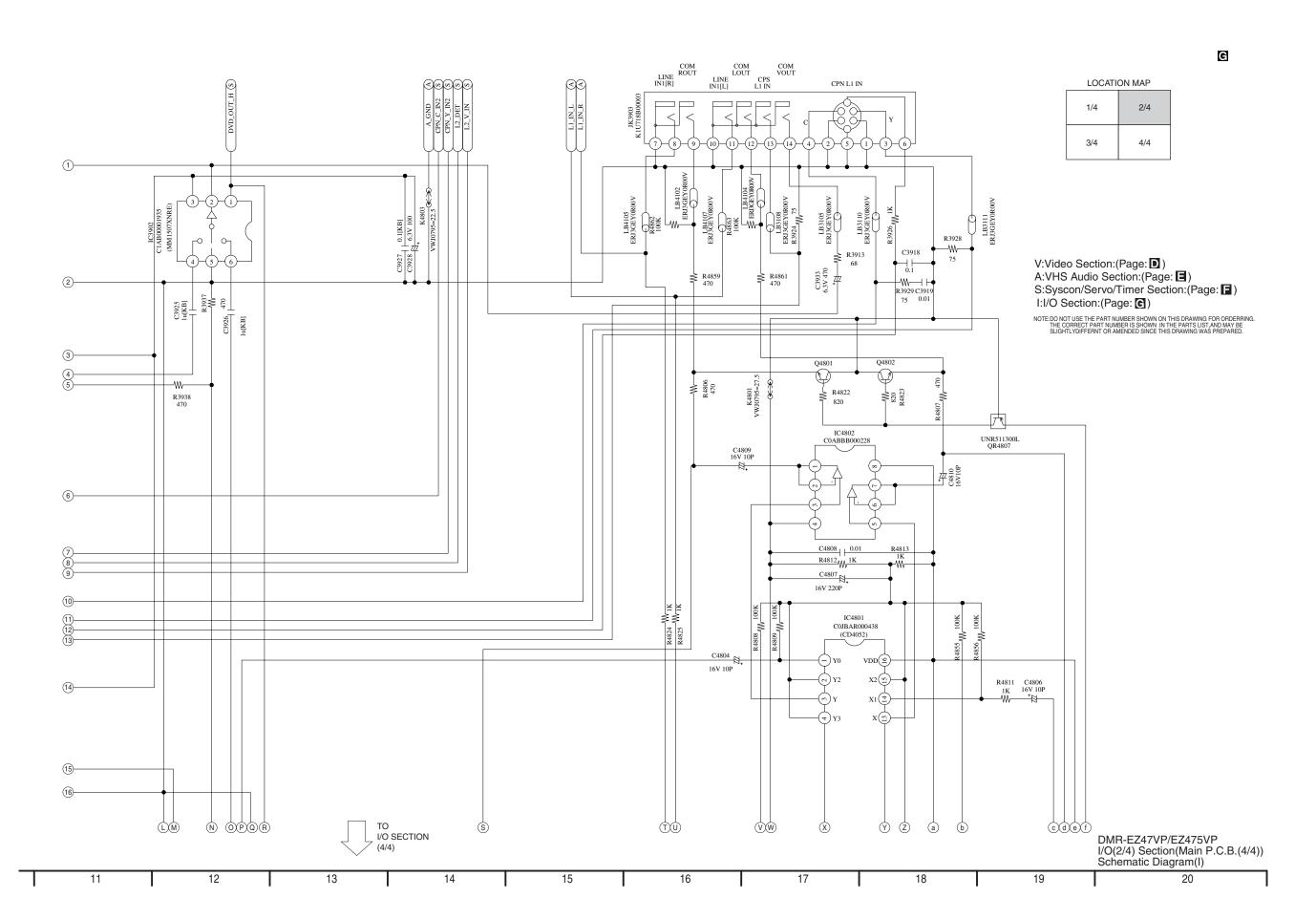
IC7503 RESET IC-DETAIL BLOCK DIAGRAM

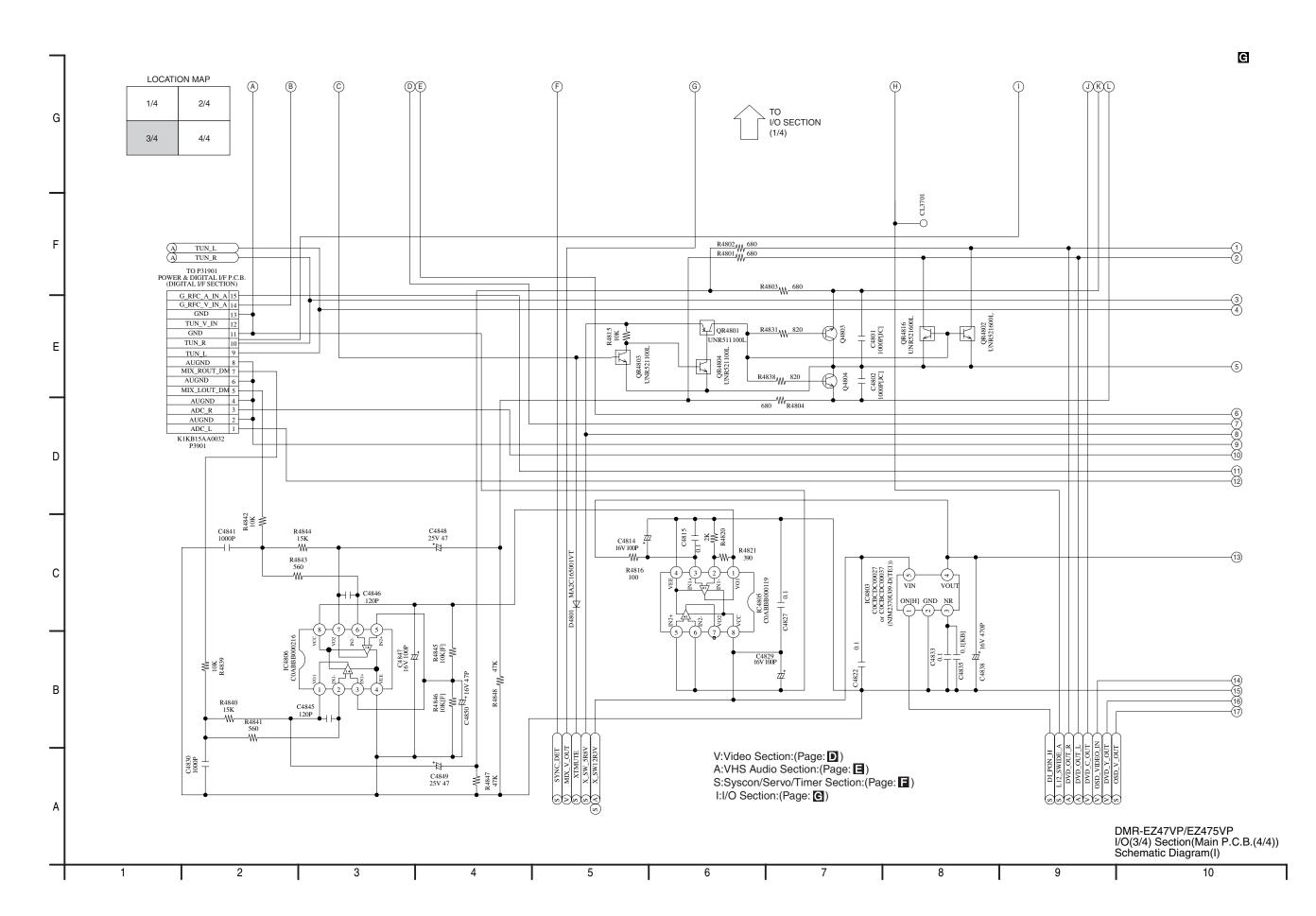


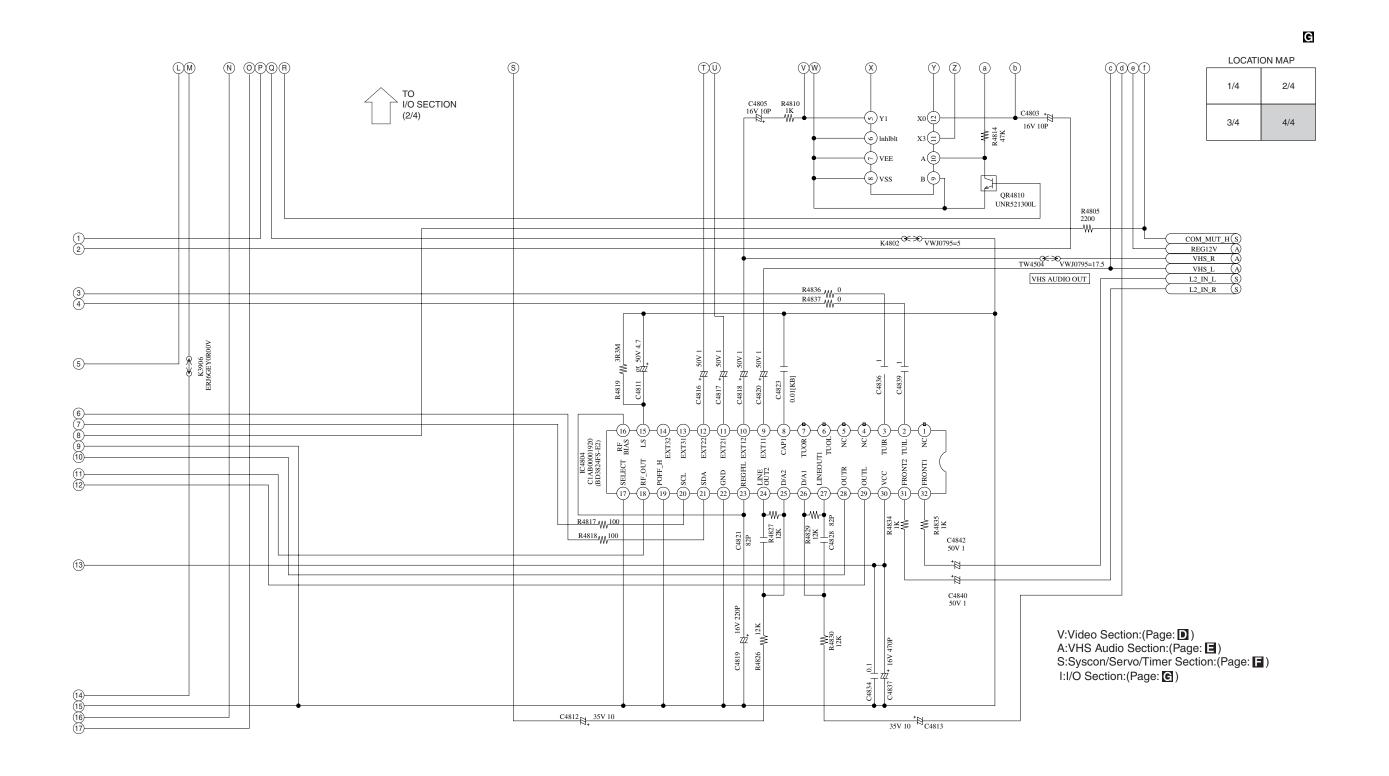
IC2001 Detail Block Diagram IC2501 Detail Block Diagram IC6002 Detail Block Diagram IC6301 Detail Block Diagram IC7501 Detail Block Diagram IC7503 Detail Block Diagram DMR-EZ47VP/EZ475VP IC-Detail Block Diagram

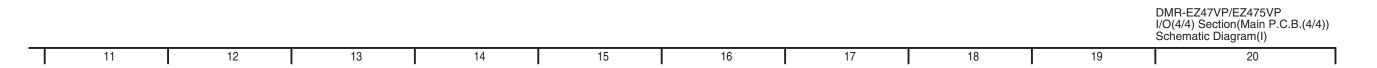
12.14. I/O Section (1/4) (Main P.C.B.(4/4)) Schematic Diagram (I)



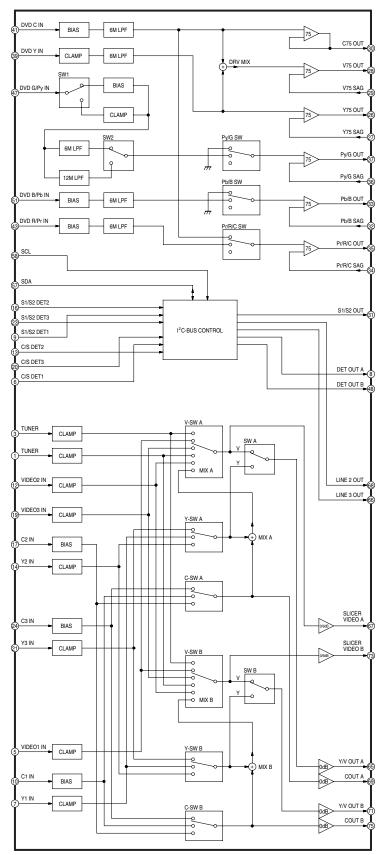




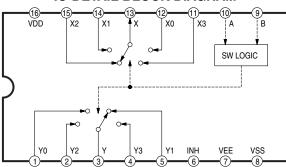




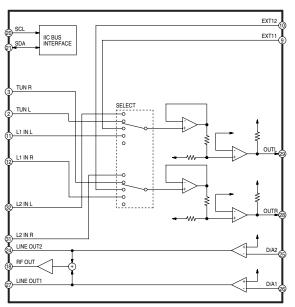
IC3701 VIDEO PROCESSOR IC-DETAIL BLOCK DIAGRAM



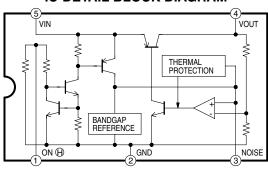
IC4801 SWITCHING IC-DETAIL BLOCK DIAGRAM



IC4804 AUDIO PROCESSOR IC-DETAIL BLOCK DIAGRAM

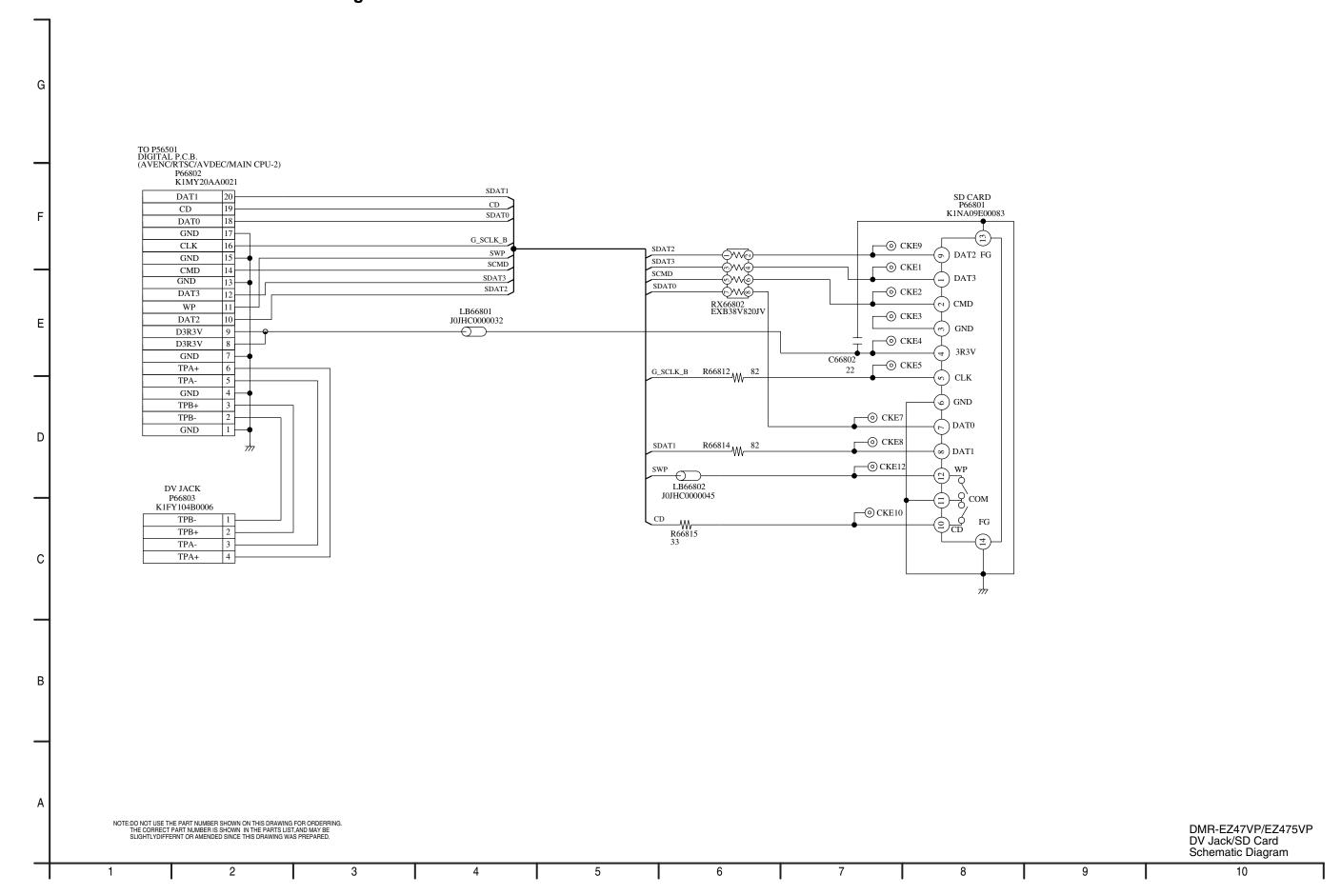


IC4803 AU +9V SWITCHING REG. IC-DETAIL BLOCK DIAGRAM

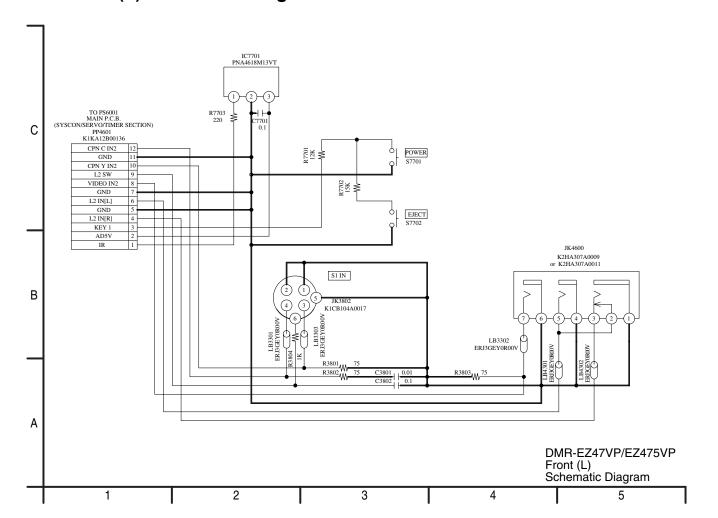


IC3701 Detail Block Diagram IC4801 Detail Block Diagram IC4803 Detail Block Diagram IC4804 Detail Block Diagram DMR-EZ47VP/EZ475VP IC-Detail Block Diagram

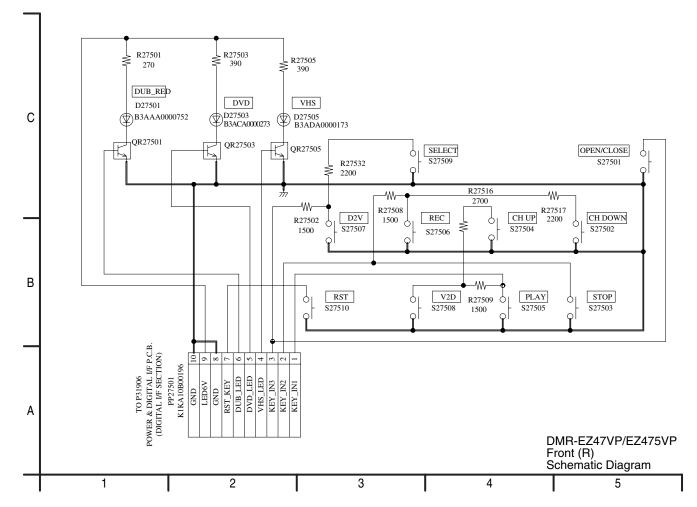
12.18. DV Jack/SD Card Schematic Diagram



12.19. Front (L) Schematic Diagram



12.20. Front (R) Schematic Diagram

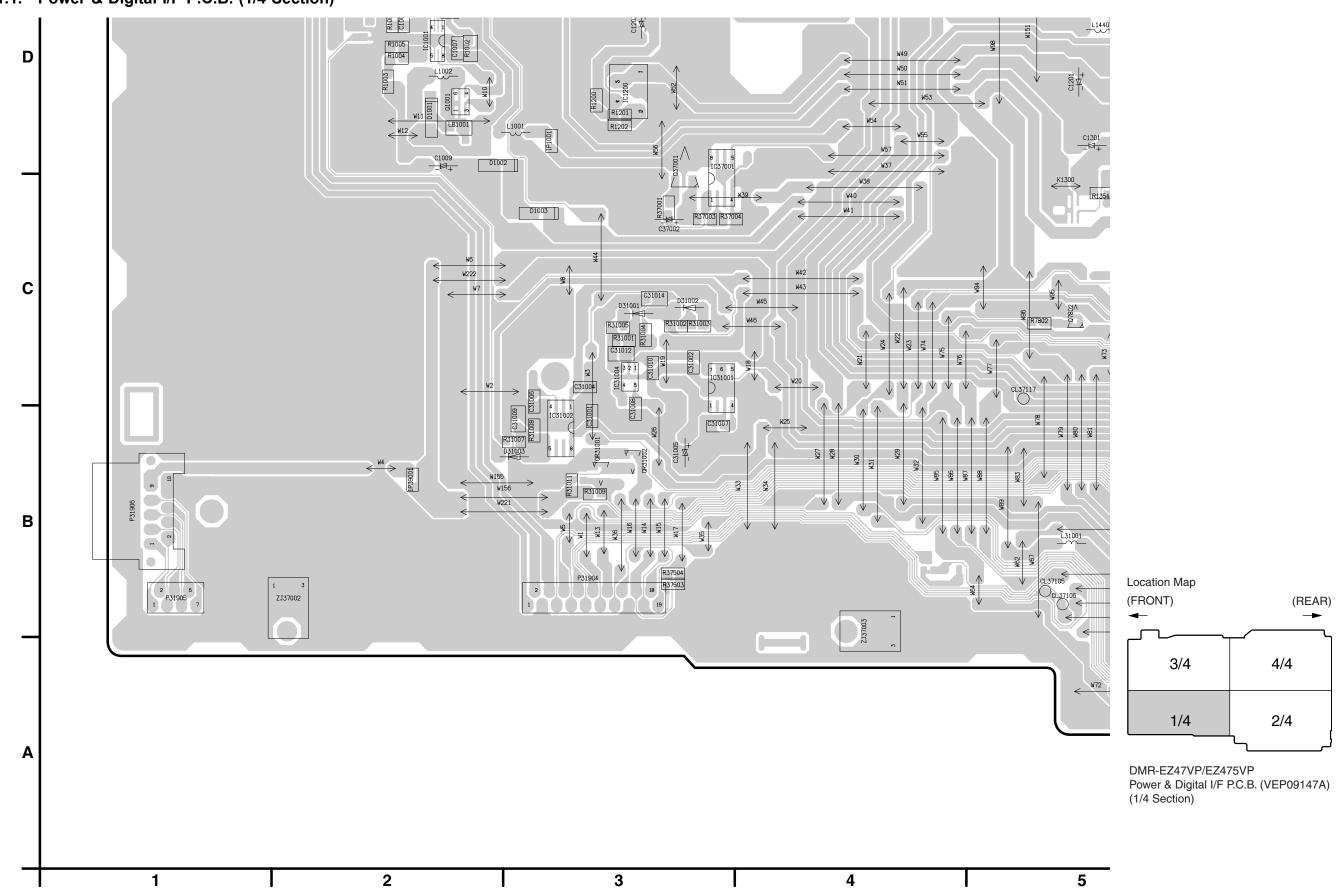


DMR-EZ47VP / DMR-EZ475VP

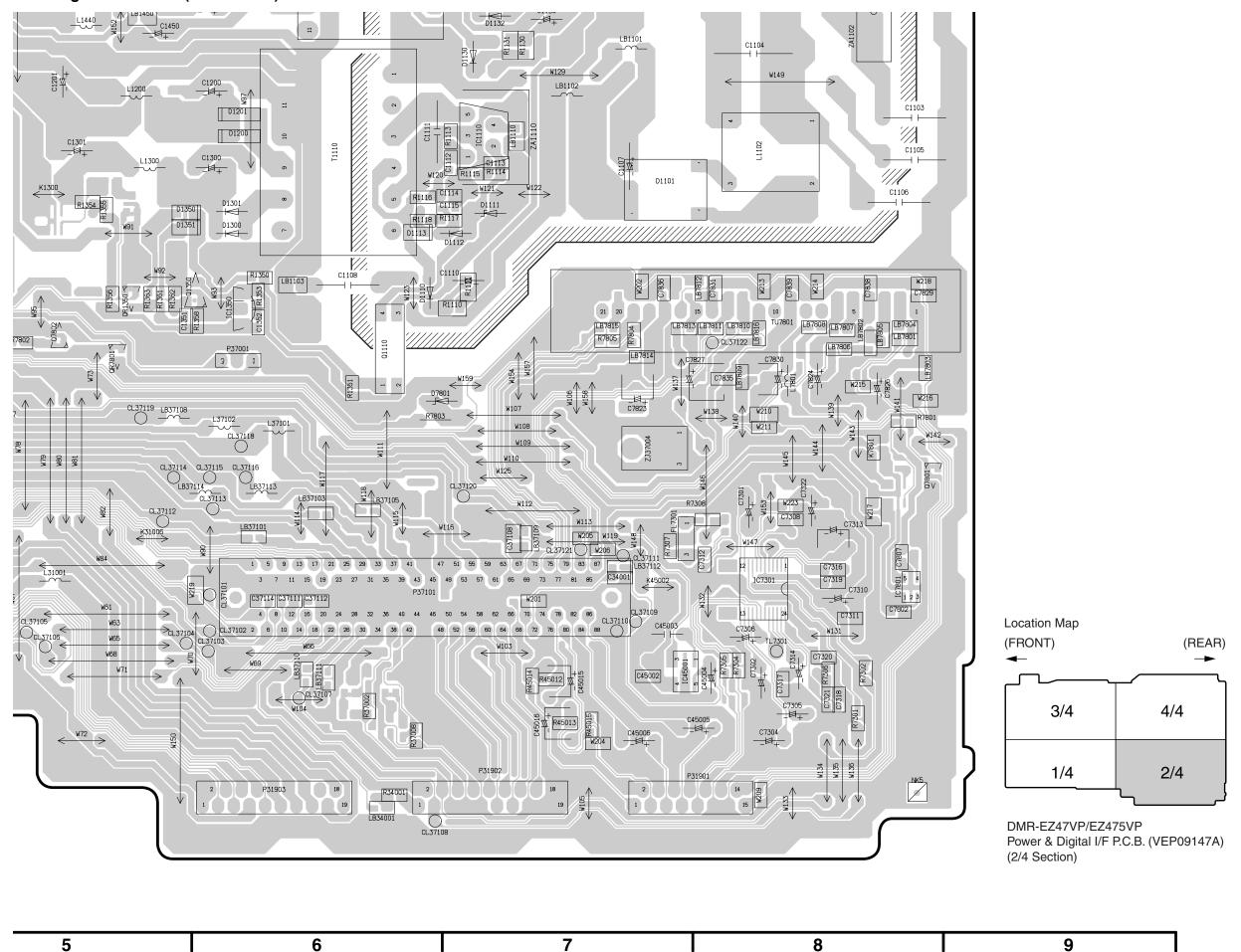
13 Printed Circuit Board

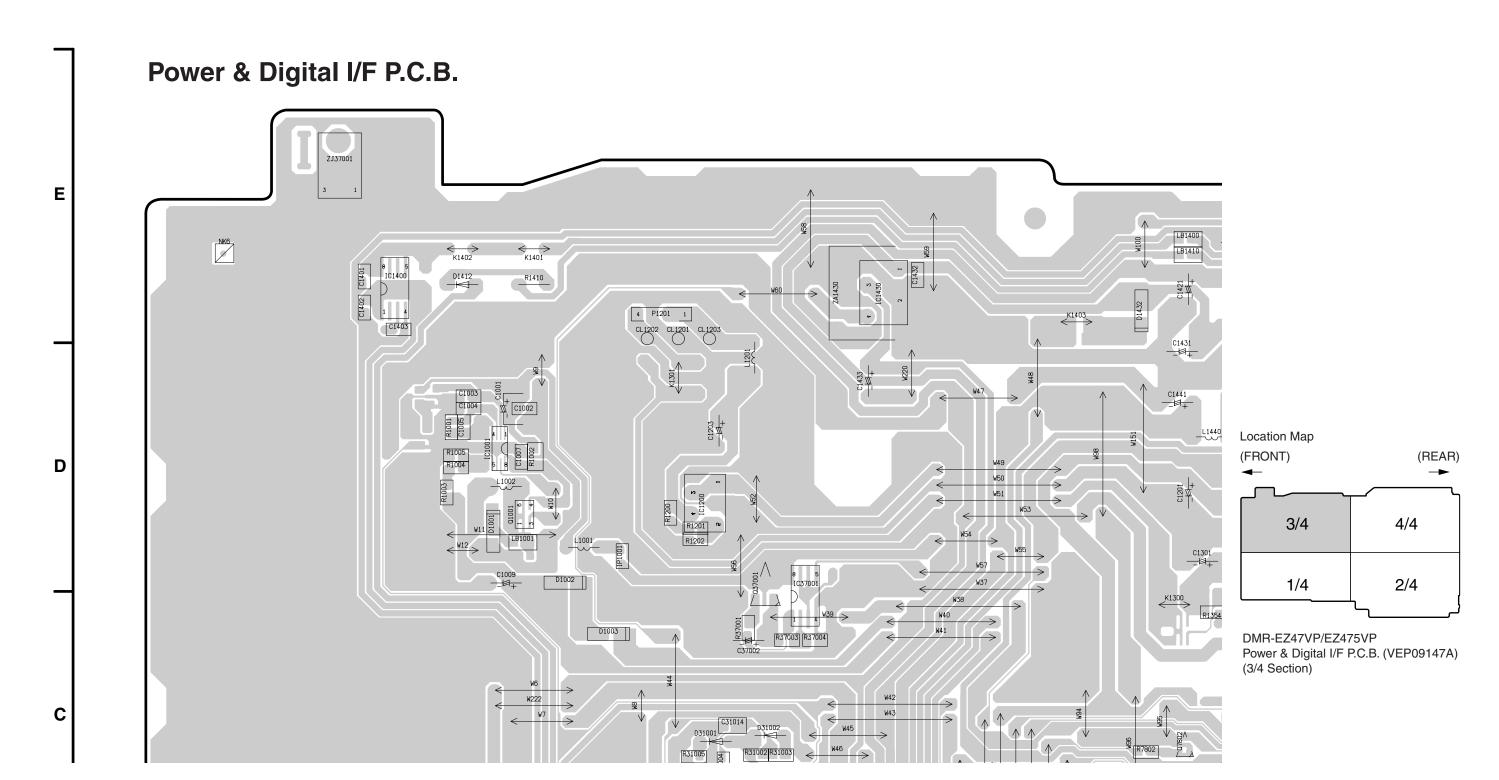
13.1. Power & Digital I/F P.C.B.

13.1.1. Power & Digital I/F P.C.B. (1/4 Section)

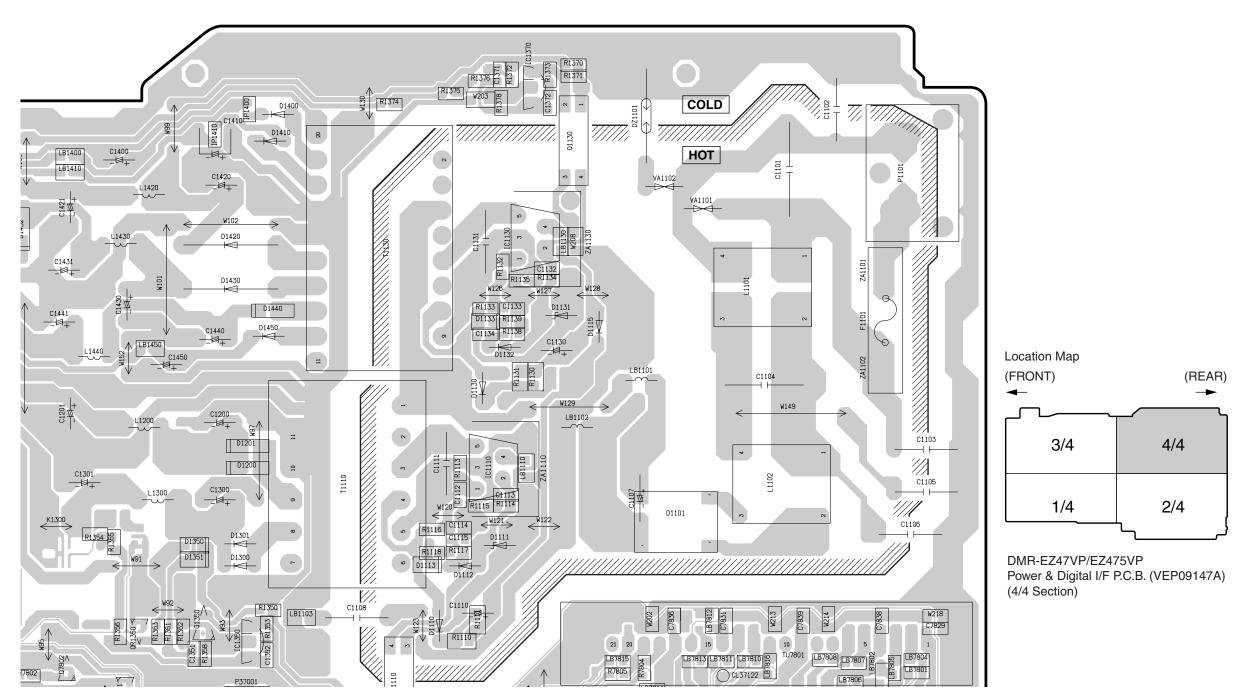


13.1.2. Power & Digital I/F P.C.B. (2/4 Section)





13.1.4. Power & Digital I/F P.C.B. (4/4 Section)

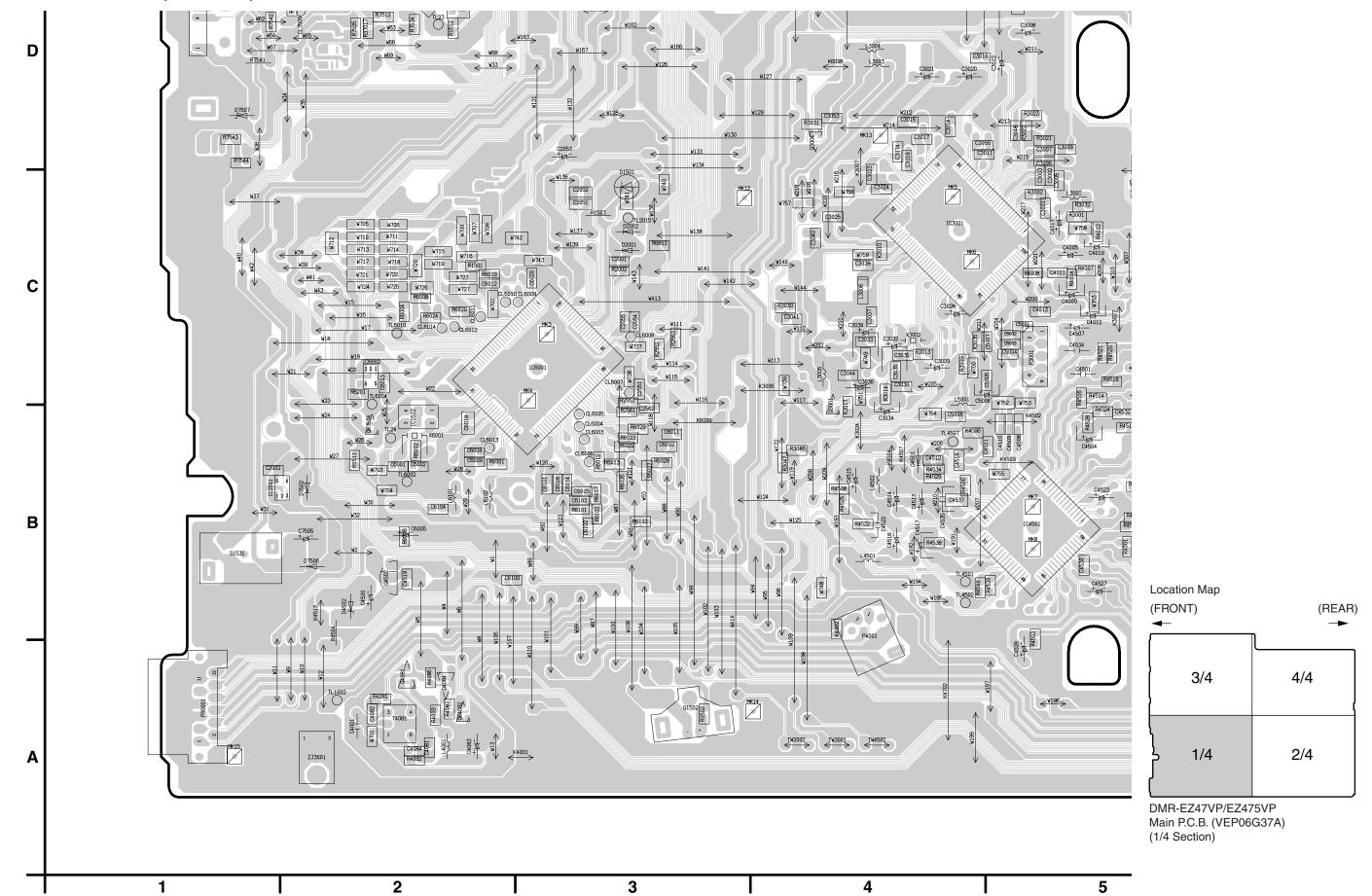


13.1.5. Power & Digital I/F P.C.B. Address Information

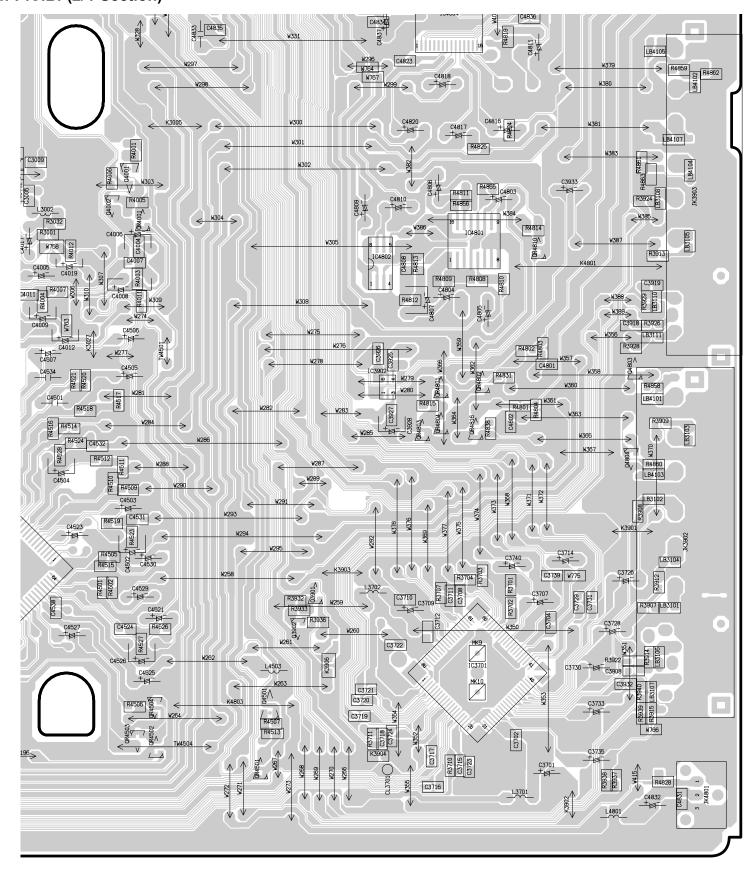
							P	ower & Digita	al I/F P.C	.B.						
Integrated C	Circuit	Connector		L1201	D-3	C1104	D-8	C7322	B-8	R1134	D-7	R45013	A-7			T
IC1001	D-2	P1101	E-8	L1300	D-5	C1105	D-8	C7802	B-8	R1135	D-7	R45014	A-7			
IC1110	D-7	P1201	E-3	L1420	E-5	C1106	C-8	C7807	B-8	R1138	D-7	R45015	A-7			
IC1130	E-7	P31901	A-7	L1430	E-5	C1107	D-7	C7823	C-7	R1139	D-7	Transforme	r			
IC1200	D-3	P31902	A-7	L1440	D-5	C1108	C-6	C7824	C-8	R1200	D-3	T1110	D-6			
IC1350	C-6	P31903	A-6	L7801	C-8	C1110	C-7	C7826	C-8	R1201	D-3	T1130	E-6			
IC1370	E-7	P31904	B-3	L31001	B-5	C1111	D-6	C7827	C-8	R1202	D-3	Tuner		1		
IC1400	E-2	P31905	B-1	L37101	C-6	C1112	D-7	C7829	C-8	R1350	C-6	TU7801	C-8	1		
IC1430	E-4	P31906	B-1	L37102	C-6	C1113	D-7	C7830	C-8	R1351	C-6	Varistor		1		
IC7301	B-8	P37001	C-6	LB1001	D-2	C1114	C-7	C7831	C-8	R1353	C-6	VA1101	E-7			
IC7801	B-8	P37101	B-6	LB1101	D-7	C1115	C-7	C7835	C-8	R1354	C-5	VA1102	E-7			
IC31001	C-3	Diode		LB1102	D-7	C1130	D-7	C7836	C-7	R1355	C-5	Fuse		1		
IC31002	B-3	D1001	D-2	LB1103	C-6	C1131	E-7	C7838	C-8	R1356	C-5	F1101	D-8	1		
IC31004	C-3	D1002	D-2	LB1110	D-7	C1132	D-7	C7839	C-8	R1358	C-6					
IC37001	C-3	D1003	C-3	LB1130	E-7	C1133	D-7	C31001	B-3	R1361	C-5					
IC45001	B-7	D1101	C-7	LB1400	E-5	C1134	D-7	C31002	C-3	R1362	C-5					
Transistor	-	D1110	C-6	LB1410	E-5	C1200	D-6	C31004	C-3	R1363	C-5				1	
Q1001	D-2	D1111	C-7	LB1450	D-5	C1201	D-5	C31005	B-3	R1370	E-7					
Q1110	C-6	D1112	C-7	LB7801	C-8	C1203	D-3	C31006	C-3	R1371	E-7					
Q1130	E-7	D1113	C-6	LB7802	C-8	C1300	D-6	C31007	B-3	R1372	E-7				1	
Q1350	C-6	D1115	D-7	LB7803	C-8	C1301	D-5	C31008	B-3	R1373	E-7				1	
Q7801	B-8	D1130	D-7	LB7804	C-8	C1351	C-5	C31009	B-3	R1374	E-6					
Q7802	C-5	D1131	D-7	LB7805	C-8	C1352	C-6	C31010	C-3	R1375	E-7					
Q37001	D-3	D1132	D-7	LB7806	C-8	C1371	E-7	C31012	C-3	R1376	E-7					
Transistor-r		D1133	D-7	LB7807	C-8	C1372	E-7	C31014	C-3	R1378	E-7					
QR1350	C-5	D1200	D-6	LB7808	C-8	C1400	E-5	C34001	B-7	R1410	E-2					
QR7801	C-5	D1201	D-6	LB7809	C-8	C1401	E-2	C37002	C-3	R7301	A-8					
QR31001	B-3	D1300	C-6	LB7810	C-8	C1402	E-2	C37108	B-7	R7302	B-8					
QR31002	B-3	D1301	C-6	LB7811	C-8	C1403	E-2	C37111	B-6	R7304	B-8					
Test Point		D1350	C-5	LB7812	C-8	C1410	E-6	C37112	B-6	R7305	B-8					
CL1201	E-3	D1351	C-5	LB7813	C-7	C1420	E-6	C37114	B-6	R7306	B-8					
CL1202	E-3	D1400	E-6	LB7814	C-7	C1421	E-5	C45002	B-7	R7307	B-7					
CL1203	E-3	D1410	E-6	LB7815	C-7	C1430	D-5	C45003	B-7	R7308	B-8					
CL37101	B-6	D1412	E-2	LB7816	C-8	C1431	D-5	C45004	B-8	R7801	C-8					
CL37102	B-6	D1420	E-6	LB34001	A-6	C1432	E-4	C45005	A-8	R7802	C-5					
CL37103	B-6	D1430	D-6	LB37101	B-6	C1433	D-4	C45006	A-7	R7803	C-6					
CL37104	B-5	D1432	E-5	LB37103	B-6	C1440	D-6	C45015	A-7	R7804	C-7					
CL37105	B-5	D1440	D-6	LB37105	B-6	C1441	D-5	C45016	A-7	R7805	C-7					
CL37106	B-5	D1450	D-6	LB37108	C-5	C1450	D-5	Resistor		R31001	C-3				1	
CL37107	A-6	D7801	C-6	LB37109	B-7	C7301	B-8	R1001	D-2	R31002	C-3					
CL37108	A-6	D31001	C-3	LB37110	B-6	C7302	A-8	R1002	D-2	R31003	C-3				1	
CL37109	B-7	D31002	C-3	LB37111	B-6	C7304	A-8	R1003	D-2	R31004	C-3				1	
CL37110	B-7	D31003	B-3	LB37112	B-7	C7305	A-8	R1004	D-2	R31005	C-3					
CL37111	B-7	IC Protector		LB37113	B-6	C7306	B-8	R1005	D-2	R31007	B-3				1	
CL37112	B-5	IP1001	D-3	LB37114	B-6	C7308	B-8	R1110	C-7	R31008	B-3					
CL37113	B-6	IP1400	E-6	Capasitor		C7310	B-8	R1111	C-7	R31009	B-3				1	
CL37114	B-5	IP1410	E-6	C1001	D-2	C7311	B-8	R1113	D-7	R31011	B-3					
CL37115	B-6	IP39001	B-2	C1002	D-2	C7312	B-8	R1114	D-7	R34001	A-6				1	
CL37116	B-6	FILTER		C1003	D-2	C7313	B-8	R1115	D-7	R37001	C-3				1	
CL37117	C-5	FL7301	B-7	C1004	D-2	C7314	B-8	R1116	C-6	R37002	A-6					
CL37118	B-6	Coil		C1005	D-2	C7316	B-8	R1117	C-7	R37003	C-3				1	
CL37119	C-5	L1001	D-3	C1007	D-2	C7317	A-8	R1118	C-6	R37004	C-3					
CL37120	B-7	L1002	D-2	C1009	D-2	C7318	A-8	R1130	D-7	R37008	A-6				1	
CL37121	B-7	L1101	D-8	C1101	E-8	C7319	B-8	R1131	D-7	R37503	B-3					
CL37122	C-8	L1102	D-8	C1102	E-8	C7320	B-8	R1132	D-7	R37504	B-3				1	
TL7301	B-8	L1200	D-5	C1103	D-8	C7321	A-8	R1133	D-7	R45012	B-7					

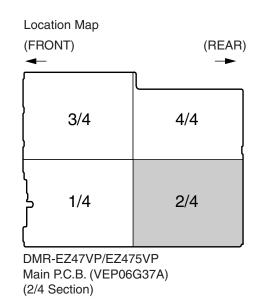
13.2. Main P.C.B.

13.2.1. Main P.C.B. (1/4 Section)

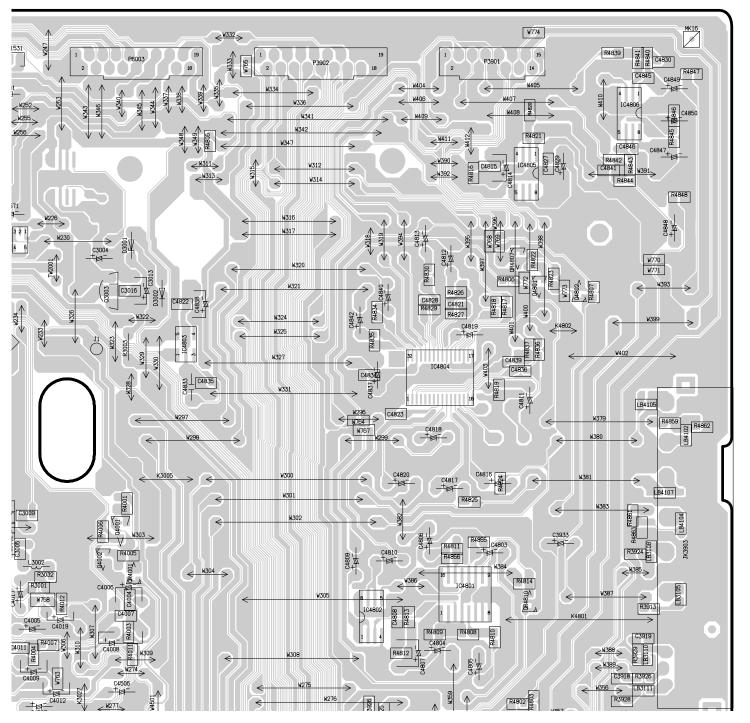


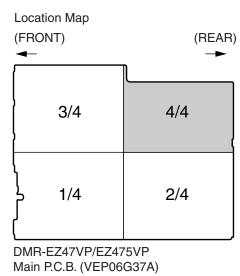
13.2.2. Main P.C.B. (2/4 Section)





Main P.C.B. Location Map (FRONT) (REAR) 3/4 4/4 2/4 1/4 DMR-EZ47VP/EZ475VP Main P.C.B. (VEP06G37A) (3/4 Section)

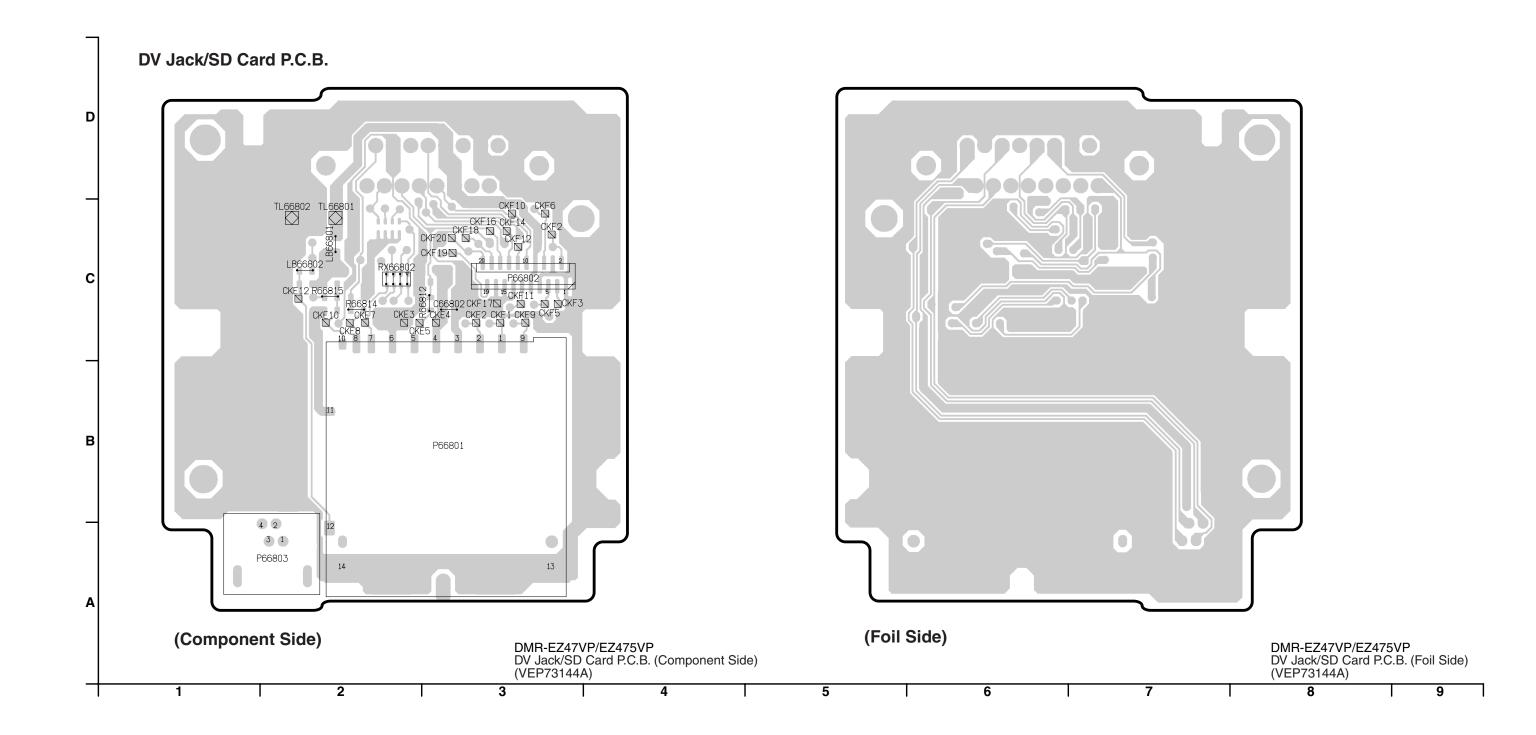


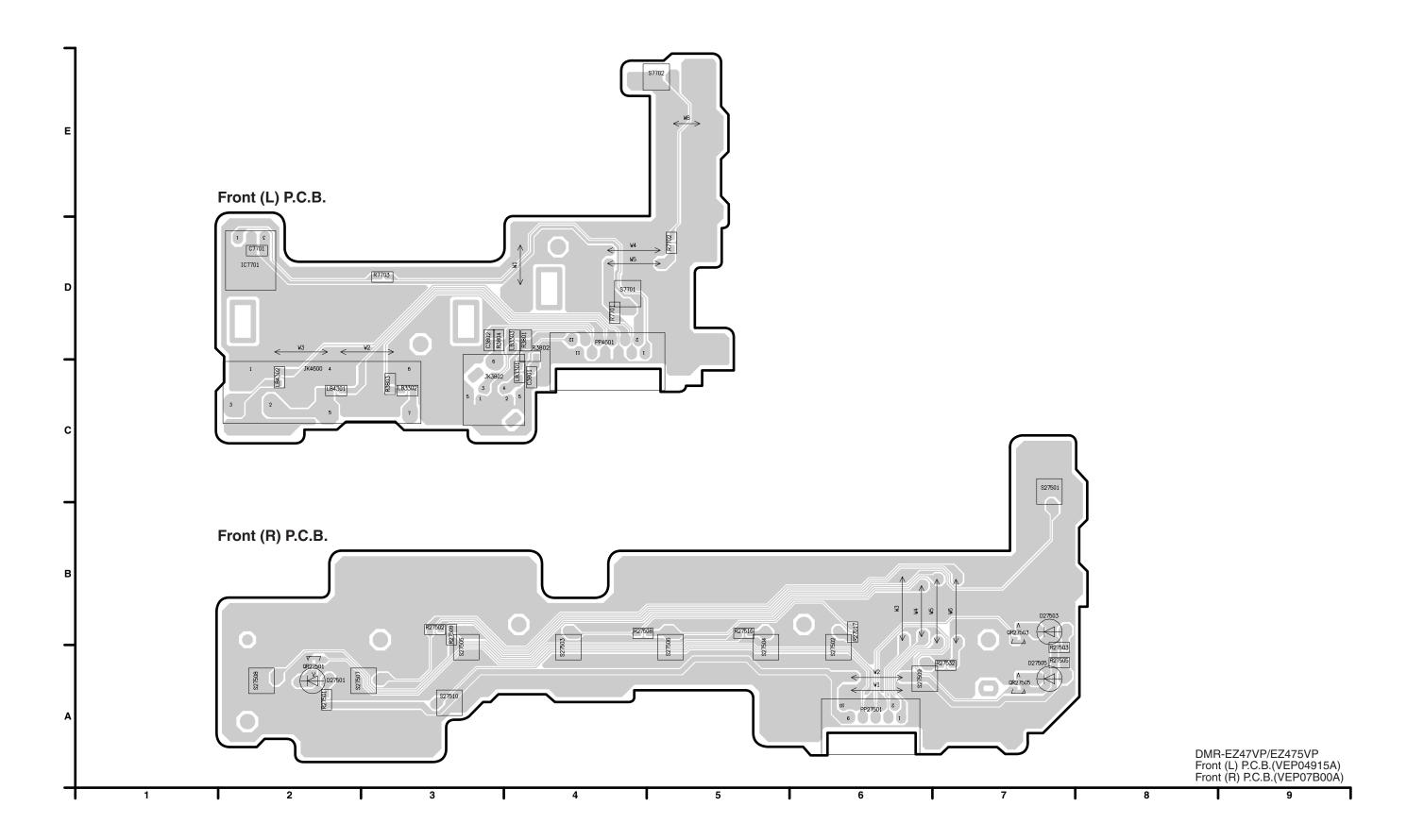


(4/4 Section)

13.2.5. Main P.C.B. Address Information

										Main P.	C.B.										
Integrated C	ircuit	CL6005		D4801	F-4	C2509	E-4	C3708	B-7	C4510	B-5	C4836	D-7	R2001	E-4	R3940	A-7	R4811	C-7	R6028	B-3
IC1511	D-2	CL6006	B-3	D7502	B-2	C2510	E-4	C3709	B-6	C4511	B-5	C4837	D-6	R2002	C-3	R4001	D-5	R4812	C-6	R6029	B-3
IC1512	B-2	CL6007		D7506	B-2	C2511	E-4	C3710	B-6	C4512	B-4	C4838	D-6	R2099	D-5	R4003	C-5	R4813	C-6	R6101	B-3
IC2001	B-2	CL6008		D7507	D-1	C2512	E-5	C3711	B-6	C4513	B-4	C4839	D-7	R2501	E-4	R4004	C-5	R4814	C-7	R6102	B-3
IC2501	E-4	CL6009		Crystal Osil		C2513	E-4	C3712	B-6	C4514	B-4	C4840	D-6	R2502	E-4	R4005	C-5	R4815	C-6	R6103	B-3
IC3001	C-4	CL6010	C-2	X3002	C-4	C2515	E-4	C3714	B-7	C4515	B-4	C4841	E-7	R2503	F-4	R4006	D-5	R4816	E-7	R6201	C-2
IC3701	B-7	CL6011	C-2	X6001	B-2	C2518	E-4	C3715	A-7	C4516	B-4	C4842	D-6	R2514	E-4	R4007	C-5	R4817	D-7	R6803	C-3
IC3902	C-6	CL6012	C-2	X7501	E-2	C2519	E-4	C3716	A-6	C4517	B-4	C4845	E-7	R2515	E-4	R4008	C-5	R4818	D-7	R7501	D-2
IC4501	B-5	CL6013		IC Protector		C2551	C-3	C3717	A-6	C4518	B-4	C4846	E-7	R2516	E-5	R4009	A-2	R4819	D-7	R7502	D-2
IC4801	C-7	CL6014	C-2	IP6101	E-4	C2552	E-4	C3718	A-6	C4519	B-2	C4847	E-7	R2520	E-4	R4011	C-5	R4820	E-7	R7503	F-2
IC4802	C-6	CL7501	D-2	Coil	0.5	C2561	E-4	C3719	A-6	C4520	B-2	C4848	E-7	R2521	E-4	R4012	C-5	R4821	E-7	R7504	E-2
IC4803	D-5	CL7502	D-2	L3002	C-5	C2562	B-3	C3720	A-6	C4521	B-5	C4849	E-7	R2551	C-3	R4081	A-2	R4822	E-7	R7505	E-2
IC4804	D-6	CL7503	D-1	L3003	D-4	C2571	E-5	C3721	A-6	C4522	B-4	C4850	E-7	R2552	C-3	R4082	A-2	R4823	E-7	R7506	E-1
IC4805	E-7	CL7504	D-2	L3004	D-4	C3001	C-5	C3722	B-6	C4523	B-5	C5001	C-5	R2561	B-3	R4086	A-2	R4824	D-7	R7507	F-1
IC4806	E-7	CL7505	D-2	L3005	C-4	C3002	C-5	C3723	A-7	C4524	B-5	C5002	C-5	R2562	E-4	R4087	A-2	R4825	D-7	R7508	E-2
IC6001	C-3 C-2	CL7506	D-2 D-2	L3006 L3701	C-4	C3003	C-5 E-5	C3724 C3726	A-6 B-7	C4525 C4526	B-5	C5003 C5004	C-5 C-5	R2563	C-3	R4500 R4501	B-4 B-5	R4826 R4827	D-7 D-7	R7509 R7510	E-2 E-2
IC6002	E-5	CL7509 TL23	D-2 D-2	L3701 L3702	A-7 B-6	C3004	C-5	C3728	В-7 В-7	C4526 C4527	B-5	C5004 C5005	C-5	R2564	E-4	R4501	B-5	R4828		R7510	E-2
IC6301 IC7501	E-3 E-2	TL24	B-2	L4061	A-2	C3005 C3006	D-5	C3726 C3729	Б-7 В-7	C4527 C4528	B-5 A-5	C5005	C-5	R2565 R3001	E-4 C-5	R4503	B-5	R4829	A-7 D-6	R7512	D-2
IC7501	E-2	TL1002	A-2	L4501	B-4	C3006 C3007	D-5 D-5	C3729 C3730	В-7 В-7	C4526 C4529	B-5	C5006	C-5	R3002	C-5	R4504	B-3 B-2	R4830	E-6	R7512	E-2
Transistor	L-0	TL2015	C-3	L4501 L4502	B-4 B-4	C3007	D-5 D-5	C3730	B-7 B-7	C4529 C4530	B-5	C5007	B-4	R3003	D-5	R4505	B-5	R4831	C-7	R7514	F-2
Q1501	F-3	TL2502	E-4	L4502 L4503	B-6	C3009	D-5 D-5	C3733	A-7	C4531	B-5	C6001	B-2	R3009	C-4	R4506	A-5	R4834	D-6	R7515	E-2
Q1501 Q1502	A-3	TL4501	B-4	L4801	A-7	C3010	D-3 D-4	C3735	A-7 A-7	C4532	B-5	C6002	B-2	R3013	C-4	R4507	A-6	R4835	D-6	R7516	E-2
Q3001	C-4	TL4502	B-4	L5001	C-4	C3011	D-4	C3739	B-7	C4534	C-5	C6003	C-2	R3014	C-4	R4508	B-4	R4836	D-7	R7517	E-3
Q3003	D-5	TL4507	B-4	L6101	B-2	C3012	D-5	C3740	B-7	C4535	B-4	C6005	B-2	R3017	B-4	R4509	B-5	R4837	D-7	R7518	E-2
Q3004	D-4	TL6002	B-2	L6102	B-2	C3013	D-5	C3908	B-7	C4537	B-4	C6008	B-2	R3021	D-5	R4510	B-5	R4838	C-7	R7519	F-2
Q3901	B-6	TL6004	C-2	LB3101	B-7	C3014	D-4	C3918	C-7	C4538	B-5	C6009	B-2	R3022	D-5	R4511	B-5	R4839	E-7	R7520	E-2
Q3902	B-6	TL6010	C-2	LB3102	B-7	C3015	D-4	C3919	C-7	C4801	C-7	C6010	B-3	R3023	D-5	R4512	B-5	R4840	E-7	R7521	F-1
Q4001	D-5	TL7501	D-2	LB3103	C-7	C3016	D-5	C3925	C-6	C4802	C-7	C6011	B-3	R3030	C-4	R4513	A-6	R4841	E-7	R7522	D-2
Q4002	C-5	TL7504	D-2	LB3104	B-7	C3017	D-4	C3926	C-6	C4803	C-7	C6012	C-2	R3031	D-4	R4514	C-5	R4842	E-7	R7523	E-2
Q4081	A-2	TL7507	E-2	LB3105	C-7	C3019	D-4	C3927	C-6	C4804	C-6	C6014	B-3	R3032	C-5	R4515	B-5	R4843	E-7	R7525	D-2
Q4084	A-2	Connector		LB3106	B-7	C3020	D-4	C3928	C-6	C4805	C-7	C6015	B-3	R3035	C-4	R4516	C-5	R4844	E-7	R7527	F-1
Q4501	A-6	J1	D-5	LB3107	A-7	C3021	D-4	C3932	B-7	C4806	C-6	C6016	B-3	R3046	B-4	R4517	C-5	R4845	E-7	R7528	E-2
Q4502	B-2	JK3902	B-7	LB3108	C-7	C3023	C-4	C3933	C-7	C4807	C-6	C6019	B-2	R3047	B-4	R4518	C-5	R4846	E-7	R7529	F-2
Q4801	D-7	JK3903	C-7	LB3110	C-7	C3024	C-4	C4001	A-2	C4808	C-6	C6020	C-3	R3701	B-7	R4519	B-5	R4847	E-7	R7530	E-2
Q4802	D-7	JK4801	A-7	LB3111	C-7	C3025	C-4	C4004	C-5	C4809	C-6	C6100	B-2	R3702	B-7	R4520	C-5	R4848	E-7	R7534	D-2
Q4803	C-7	P1531	E-5	LB4101	C-7	C3028	C-4	C4005	C-5	C4810	C-6	C6101	B-3	R3703	B-7	R4521	C-5	R4855	C-7	R7535	E-2
Q4804	B-7	P2501	E-5	LB4102	D-7	C3029	C-4	C4006	C-5	C4811	D-7	C6102	B-3	R3704	B-7	R4522	B-4	R4856	C-7	R7536	F-1
Q7501	F-1	P2571	E-4	LB4103	B-7	C3030	C-4	C4007	C-5	C4812	E-7	C6103	B-3	R3707	B-6	R4523	B-5	R4858	C-7	R7537	F-1
Transistor-re		P3001	C-5	LB4104	D-7	C3031	C-4	C4008	C-5	C4813	E-6	C6104	B-2	R3710	A-6	R4524	B-5	R4859	D-7	R7538	F-1
QR4001	C-5	P3901	E-7	LB4105	D-7	C3032	C-4	C4009	C-5	C4814	E-7	C6308	E-5	R3711	A-6	R4525	B-4	R4860	B-7	R7539	E-2
QR4082	A-2	P3902		LB4107	D-7	C3033	C-4	C4011	C-5	C4815	E-7	C7501	F-2	R3907	B-7	R4526	B-5	R4861	D-7	R7541	D-1
QR4501	A-6	P4001		Capasitor	C 2	C3034	C-4 C-4	C4012	C-5	C4816	D-7	C7502	F-2	R3908	B-7	R4527	B-5	R4862	D-8	R7542 R7543	D-1
QR4502 QR4503	A-5 A-5	P4002 P6001	D-5 F-1	C2001 C2002	C-3 B-1	C3035 C3036	C-4 C-4	C4013 C4017	C-5 C-5	C4817	D-7 D-6	C7503 C7504	F-2 E-3	R3909 R3912	C-7 B-7	R4528 R4529	B-5 B-4	R4863 R6001	D-7 B-2	R7543 R7544	D-1 D-1
QR4503 QR4504	A-5 A-5	P6001	F-1 F-3	C2002	E-4	C3036 C3037	C-4 C-4	C4017 C4019	C-5 C-5	C4818 C4819	D-6 D-7	C7504 C7505	B-2	R3912	C-7	R4529 R4534	B-4 B-4	R6001	B-2 B-2	R7544	D-1 D-2
QR4801	C-6	P6002	E-5	C2003	C-3	C3037	C-4 C-4	C4019 C4081	A-2	C4819 C4820	D-7 D-6	C7505	E-1	R3914	B-7	R4538	B-4 B-4	R6004	C-2	R7546	D-2 D-2
QR4802	C-7	PS6001	A-1	C2051	C-3	C3039	C-4 C-4	C4081 C4082	A-2 A-2	C4821	D-0 D-7	C7508	E-2	R3915	A-7	R4539	B-4 B-5	R6006	B-2	R7547	E-2
QR4803	C-6	Diode	<u> </u>	C2052	D-3	C3039	C-4	C4082	A-2 A-2	C4822	D-7 D-5	C7509	E-2	R3922	B-7	R4540	B-4	R6008	C-2	R7548	D-2
QR4804	C-6	D1501	C-3	C2054	C-3	C3040	C-4	C4083	A-2 A-2	C4823	D-5 D-6	C7510	E-2	R3924	C-7	R4801	C-7	R6012	B-3	R7549	E-1
QR4807	E-7	D2001	C-3	C2055	C-3	C3044	C-4	C4501	C-5	C4827	E-7	C7514	E-2	R3926	C-7	R4802	C-7	R6013	B-3	R37017	D-2
QR4810	C-7	D2002	C-3	C2099	D-5	C3048	D-5	C4502	B-5	C4828	D-6	C7515	D-2	R3928	C-7	R4803	C-7	R6017	B-3	Switch	
QR4816	C-7	D2501		C2501	E-4	C3050	D-4	C4503	B-5	C4829	E-7	Resistor		R3929	C-7	R4804	C-7	R6019	C-2	S1531	B-1
QR7502	E-1	D2502	F-4	C2502	E-3	C3053	D-4	C4504	B-5	C4830	E-7	R1501	C-2	R3932	B-6	R4805	E-6	R6020	C-2	S1532	E-2
QR7504	B-2	D2503	E-4	C2504	E-4	C3074	D-4	C4505	C-5	C4831	A-7	R1502	A-3	R3933	B-6	R4806	E-7	R6022	B-3	Transforme	
Test Point		D3001	E-5	C2505	E-4	C3701	A-7	C4506	C-5	C4832	A-7	R1503	C-3	R3936	B-6	R4807	D-7	R6023	B-3	T4081	A-2
CL3701	A-6	D3002	D-5	C2506	E-4	C3702	A-7	C4507	C-5	C4833	D-5	R1511	B-2	R3937	A-7	R4808	C-7	R6024	C-2	Display	
CL6003	B-3	D4501		C2507	E-4	C3704	B-7	C4508	B-5	C4834	D-6	R1512	D-2	R3938	A-7	R4809	C-6	R6026	B-3	DP7501	E-1
CL6004	B-3	D4502		C2508	E-4	C3707	B-7	C4509	B-5	C4835	D-6	R1513	D-2	R3939	A-7	R4810	C-7	R6027	B-3		





14 Appendix for Schematic Diagram

14.1. Voltage and Waveform Chart

Note)

Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point, because it may differ from an actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

14.1.1. Power & Digital I/F P.C.B.

Ref No.				IC1	001							IC1110						IC1130		
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	12.4	4.5	1.2	1.1	0.8	0	10.6	12.4		2.3	2.0	0	13.0	-340		2.2	2.2	0	12.9	-333
PLAY	12.4	4.5	1.2	1.1	0.8	0	10.6	12.4		2.3	2.0	0	13.0	-340		2.2	2.2	0	12.9	-333
STOP	12.4	4.5	1.2	1.1	0.8	0	10.6	12.4		2.3	2.0	0	13.0	-340		2.2	2.2	0	12.9	-333
Ref No.			IC1200					IC1350				IC1370					i e			
MODE	1	2	3	4	5		1	2	3		1	2	3							
REC	12.6	12.6	0	12.0	5.8		8.1	2.5	0		4.4	2.5	0							
PLAY	12.6	12.6	0	12.0	5.8		8.1	2.5	0		4.4	2.5	0							
STOP	12.6	12.6	0	12.0	5.8		8.1	2.5	0		4.4	2.5	0							
Ref No.				IC1	400						IC1	430								
MODE	1	2	3	4	5	6	7	8		1	2	3	4							
REC	-14.8	-	-16.7	-18.1	-11.3	-	-	-11.3		4.0	3.3	0	2.8							
PLAY	-14.8	-	-16.7	-18.1	-11.3	-	-	-11.3		4.0	3.3	0	2.8							
STOP	-14.8	-	-16.7	-18.1	-11.3	-	-	-11.3		4.0	3.3	0	2.8							
Ref No.										IC7										
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.4	2.4	2.4	3.1	2.4	0	2.2	-	5.0	5.0	2.4	2.8	2.4	2.3	2.4	2.4	2.5	2.5	5.0	2.0
PLAY	2.4	2.4	2.4	3.1	2.4	0	2.2	-	5.0	5.0	2.4	2.8	2.4	2.3	2.4	2.4	2.5	2.5	5.0	2.0
STOP	2.4	2.4	2.4	3.1	2.4	0	2.2	-	5.0	5.0	2.4	2.8	2.4	2.3	2.4	2.4	2.5	2.5	5.0	2.0
Ref No.		IC7																		
MODE	21	22	23	24																
REC	2.4	1.5	2.4	2.4																
PLAY	2.4	1.5	2.4	2.4																
STOP	2.4	1.5	2.4	2.4																
Ref No.		_	IC7801					_	_	IC31001										$\overline{}$
MODE	1	2	3	4	5		1	2	3	4	5	6	7							$\overline{}$
REC	5.9	0	5.9	-	5.0		5.0	-	0	3.4	4.8	0	5.9							$\overline{}$
PLAY	5.9	0	5.9	-	5.0 5.0		5.0	-	0	3.4	4.8	0	5.9							
STOP Ref No.	5.9	0	5.9	- 100	1002		5.0	-	0	3.4	4.8	0 IC31004	5.9							
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5						
REC	3.3	-	1.3	0	4.6	-	-	4.0		5.9	0	4.1	-	5.0						
PLAY	3.3	-	1.3	0	4.6	-		4.0		5.9	0	4.1	_	5.0						$\overline{}$
STOP	3.3	-	1.3	0	4.6	-		4.0		5.9	0	4.1		5.0						
Ref No.	0.0		1.0		7001			7.0		0.0		IC45001		0.0						
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5						
REC	5.8	1.8	1.8	0	1.8	1.8	1.8	12.6		1.2	0	4.7	5.9	5.0						
PLAY	5.8	1.8	1.8	0	1.8	1.8	1.8	12.6		1.2	0	4.7	5.9	5.0						-
STOP	5.8	1.8	1.8	0	1.8	1.8	1.8	12.6		1.2	0	4.7	5.9	5.0						$\overline{}$
Ref No.		-	Q1						Q1	110	-				130				Q1530	$\neg \neg$
MODE	1	2	3	4	5	6		1	2	3	4		1	2	3	4		Е	С	В
REC	2.3	2.3	10.6	12.4	2.3	2.3		8.8	7.8	0	2.0		5.4	4.4	0	2.2		0	8.1	0
PLAY	2.3	2.3	10.6	12.4	2.3	2.3		8.8	7.8	0	2.0		5.4	4.4	0	2.2		0	8.1	0
STOP	2.3	2.3	10.6	12.4	2.3	2.3		8.8	7.8	0	2.0		5.4	4.4	0	2.2		0	8.1	0
Ref No.		Q7801				Q7802				Q37001										
MODE	Е	С	В		Е	С	В		Е	С	В									
REC	2.6	0	2.0		0	0.1	0.6		12.6	12.6	11.9									
PLAY	2.6	0	2.0		0	0.1	0.6		12.6	12.6	11.9									
STOP	2.6	0	2.0		0	0.1	0.6		12.6	12.6	11.9									
Ref No.		QR1350				QR7801				QR31001				QR31002						
MODE	Е	С	В		Е	С	В		Е	С	В		Е	С	В					
REC	0	0	4.8		36.7	36.7	0.1		0	4.7	0		0	0	4.7					
PLAY	0	0	4.8		36.7	36.7	0.1		0	4.7	0		0	0	4.7					
STOP	0	0	4.8		36.7	36.7	0.1		0	4.7	0		0	0	4.7					

14.1.2. Main P.C.B.

17.1.2.	iviaii	• • • •	J																	
Ref No.		_	511					512				,	IC2001							
MODE	1	2	3	4		1	2	3	4		1	2	3	4	5					
REC	1.2	2.4	0.2	0		0	1.2	4.9	0		5.9	0	4.6	-	5.0					
PLAY	1.2	2.4	0.1	0		0	1.2	4.9	0		5.9	0	4.6		5.0					$\overline{}$
STOP Ref No.	1.2	2.4	0.2	0		0	1.2	4.9	0	ICa	5.9 501	0	4.6	-	5.0					
MODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	12.2	0.1	0	0.1	0	0	16.1	0	2.8	1.6	1.6	0.6	1.5	2.4	2.5	2.5	2.5	1.3	5.0	3.8
PLAY	12.2	0.1	0	0.1	0	0	16.2	0	2.8	1.6	1.6	0.6	1.5	2.4	2.5	2.5	2.5	1.3	5.0	3.6
STOP	12.2	0.1	0	0.1	0	0	16.2	0	2.8	1.6	1.6	0.6	1.5	2.4	2.5	2.5	2.5	1.3	5.0	3.6
Ref No.										IC2	2501									
MODE	21	22	23	24	25	26	27													
REC	12.2	3.8	3.8	0	3.8	0	0													
PLAY	12.2	3.6	3.6	0	3.6	0	0						-				-	-		
STOP Ref No.	12.2	3.6	3.6	0	3.6	0	0			ICa	8001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	2.3	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0
PLAY	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	2.3	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0
STOP	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	2.3	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0
Ref No.										IC3	3001									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.7	5.0	2.3	0.1	0	2.9	0	0	2.4	2.8	0.4	2.2	2.0	1.7	3.0	2.3	3.0	2.1	1.4	2.1
PLAY	2.7	5.0	2.3	0.1	0	2.9	0	0	2.4	2.8	0.4	2.2	2.0	1.7	3.0	2.3	3.0	2.1	1.4	2.1
STOP Ref No.	2.7	5.0	2.3	0	0	3.0	0	0	2.4	2.8 IC3	0.4	2.2	2.1	1.7	3.0	2.3	3.0	2.1	1.5	2.1
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	3.1	5.0	1.9	5.0	2.6	0	1.9	0	2.2	2.2	5.0	5.0
PLAY	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	3.1	5.0	1.9	5.0	2.6	0	1.9	0	2.2	2.2	5.0	5.0
STOP	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	0	5.0	1.9	5.0	2.6	0	1.9	0	2.2	2.2	5.0	5.0
Ref No.											001									
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	2.0	2.7	0	5.0	0	2.4	2.8	2.2	2.8	0	0	2.6
PLAY	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	2.0	2.7	0	5.0	0	2.4	2.8	2.2	2.8	0	0	2.6
STOP Ref No.	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	0	2.7	0	0	2.9	2.4	2.7	2.2	2.8	5.0	0	2.4
MODE NO.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0.7	0	3.2	4.9	2.4	2.3	2.4	0	0	0	0	5.1	0.5	2.6	2.5	2.5	0	2.3	0	2.6
PLAY	0.7	0	3.2	4.9	2.4	2.3	2.4	0	0	0	0	5.1	0.5	2.6	2.5	2.5	0	2.3	0	2.6
STOP	0.7	0	3.2	5.0	2.3	2.3	2.3	0	2.3	2.3	2.3	5.1	0.6	2.5	2.5	2.5	0	2.3	0	2.6
Ref No.											701									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC PLAY	1.8	0	1.7	5.0 5.0	1.8	4.8	1.4	4.7	0.1	2.8	0	1.4	4.8 4.8	1.4	0	0.1	2.7	0	1.4	4.8
STOP	1.8	0	1.7	5.0	1.8	4.8	1.4	4.7	0.1	2.8	0	1.4	4.8	1.4	0	0.1	2.7	0	1.4	4.8
Ref No.											3701									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.4	0	0.1	2.7	4.9	1.7	1.7	1.9	1.9	2.2	0	2.2	2.2	2.2	2.2	2.2	2.2	0	1.8	5.0
PLAY	1.4	0	0.1	2.7	4.9	1.7	1.7	1.9	1.9	2.2	0	2.2	2.2	2.2	2.2	2.2	2.2	0	1.8	5.0
STOP	1.4	0	0.1	2.7	4.9	1.7	1.7	1.9	1.9	2.2	0 3701	2.2	2.2	2.2	2.2	2.2	2.2	0	1.8	5.0
Ref No. MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.8	0	2.8	4.9	2.8	2.8	2.8	4.9	2.8	0	2.8	4.9	2.8	2.9	1.0	0	3.9	3.7	2.1	-
PLAY	2.8	0	2.8	4.9	2.8	2.8	2.8	4.9	2.8	0	2.8	4.9	2.8	2.9	1.0	0	3.9	3.7	2.1	-
STOP	2.8	0	2.8	4.9	2.8	2.8	2.8	4.9	2.8	0	2.8	4.9	2.8	2.9	1.0	0	3.9	3.7	2.1	-
Ref No.											701									
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	-	0.8	0.8	5.0	1.3	-	-	-	2.1	0	1.3	5.0	-	0	2.1	0	0	5.0	-	0
PLAY STOP	-	0.8	0.8	5.0 5.0	1.3	-	-	-	2.1	0	1.3	5.0 5.0	-	0	2.1	0	0	5.0 5.0	-	0
Ref No.		0.0		3902	1.0				۲.۱	-	1.0	5.0			۲.۱			5.0		
MODE	1	2	3	4	5	6														
REC	4.9	1.9	5.0	1.9	0	1.2														
PLAY	4.9	1.9	5.0	1.9	0	1.2														
STOP	4.9	1.9	5.0	1.9	0	1.2				10.4	501									
Ref No.	_				-	_	-	0	0		501	40	40	- 44	45	40	47	40	40	- 00
MODE REC	2.3	0	2.3	4 0	5 0	6 2.5	7 2.1	8	9	10	11 0	12 2.1	13	14 0	15 0	16 2.7	17 0.6	18 2.6	19 2.6	20
PLAY	2.3	0	2.3	0	0	2.5	2.1	0	0	0	0	2.1	0	0	0	2.7	0.6	2.6	2.6	2.1
STOP	2.3	0	2.3	0	0	2.5	2.1	0	0	0	0	2.1	0	0	0	2.7	0.6	2.6	2.6	2.1
Ref No.										IC4	501									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.0	2.1	0	2.1	5.1	2.1	0	4.3	3.9	3.7	1.1	2.5	2.6	0.8	2.6	0	2.0	0	0	5.1
PLAY	2.0	2.1	0	2.1	5.1	2.1	0	4.3	3.9	3.7	1.1	2.5	2.6	0.8	2.6	0	2.0	0	0	5.1
STOP Rof No	2.1	2.1	0	2.1	5.1	2.1	0	4.3	1.8	1.8 IC4	0 501	2.6	2.6	8.0	2.6	0	2.0	0	0	5.1
Ref No. MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	2.9	2.4	3.3	1.6	2.5	2.5	2.5	3.6	2.5	5.1	0.1	5.9	0	0	0	5.9	12.1	6.0	0
PLAY	0	2.9	2.4	3.3	1.6	2.5	2.5	2.5	3.6	2.5	5.1	0.1	5.9	0	0	0	5.9	12.1	6.0	0
STOP	0	2.9	2.4	3.3	1.6	2.5	1.6	2.5	3.6	2.5	5.1	0.1	6.0	0	0	0	6.0	12.1	6.1	0
Ref No.										IC4	501									
MODE	61	62	63	64				$ldsymbol{ldsymbol{eta}}$											$ldsymbol{ldsymbol{eta}}$	\Box
REC	2.5	2.4	2.5	2.5	-			<u> </u>			<u> </u>	<u> </u>	-					-	<u> </u>	
PLAY STOP	2.5	2.4	2.5 2.5	2.5 2.5	1						\vdash	\vdash	├				-	├		
3101	2.0	2.4	۷.5	2.5							<u> </u>									

																		[=::	IR-EZ47V	
Ref No.								IC4	801											
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	6.2	6.2	6.2	6.2	6.2	0	0	0	0	0	6.2	6.2	6.2	6.2	6.2	12.5				
PLAY	6.2	6.2	6.2	6.2	6.2	0	0	0	0	0	6.2	6.2	6.2	6.2	6.2	12.5				
STOP	6.2	6.2	6.2	6.2	6.2	0	0	0	0	0	6.2	6.2	6.2	6.2	6.2	12.5				
Ref No.				IC4	802							IC4803								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5						
REC	6.2	6.2	6.2	0	6.2	6.2	6.2	12.5		4.8	0	1.2	9.0	12.6						
PLAY	6.2	6.2	6.2	0	6.2	6.2	6.2	12.5		4.8	0	1.2	9.0	12.6						
STOP	6.2	6.2	6.2	0	6.2	6.2	6.2	12.5		4.8	0	1.2	9.0	12.6						
Ref No.											804									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-	2.5	2.5	-	-	-	-	3.4	4.4	4.4	4.4	4.4	-	-	0	4.4	0	2.5	0	0.2
PLAY	-	2.5	2.5	-	-	-	-	3.6	4.4	4.4	4.4	4.4	-	-	0	4.4	0	2.5	0	0.2
STOP	-	2.5	2.5	-	-	-	-	3.6	4.4	4.4	4.4	4.4	-	-	0	4.4	0	2.5	0	0.2
Ref No.		2.0	2.0			IC4		0.0	7.7	7.7		7.7			Ů	7.7	Ů	2.0	Ů	0.2
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	2.3	0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	9.0	4.4	4.4								
PLAY	2.3	0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	9.0	4.4	4.4								
STOP	2.3	0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	9.0	4.4	4.4								
Ref No.	2.0	U	7.7		805	7.7	7.7	7.7	7.7	3.0	7.7	7.7	IC4	806						
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	9.0	9.0	9.0	0	0	0	-	12.6		4.5	4.5	4.5	0	4.5	4.5	4.5	9.0			
PLAY	9.0	9.0	9.0	0	0	0	-	12.6		4.5	4.5	4.5	0	4.5	4.5	4.5	9.0		\vdash	
STOP Ref No.	9.0	9.0	9.0	0	0	0	-	12.6		4.5	4.5 001	4.5	0	4.5	4.5	4.5	9.0			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	0	4.9	4.9	4.8	4.6	3.2	0	4.7	4.9	0	4.9	3.8	0	4.8	0	0	4.8
PLAY	0	0	0	0	4.9	4.9	4.8	4.6	3.2	0	0	0	0	4.9	3.8	0	4.8	2.4	0	4.8
STOP	4.8	0	0	0	4.9	4.9	4.8	4.6	3.2	0	0	0	0	4.9	3.8	0	4.8	2.4	0	0
Ref No.	4.0	U	U	U	4.9	4.9	4.0	4.0	٥.٥	IC6		U	U	4.9	ა.6	U	4.0	2.4	U	U
	01	00	00	0.4	05	00	07	00	00			00	00	0.4	05	00	07	20	00	40
MODE	21	22	23	24	25	26	27 0	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.9	0	4.3	2.0	0	4.8	_	0	4.9	0	4.8	4.8	0	4.9	1.5	1.3	4.9	-	-	0
PLAY	4.9	0	4.3	2.0	0	4.8	0	0	4.9	0	4.8	4.8	0	4.9	1.5	1.3	4.9	-	-	0
STOP	4.9	0	4.3	2.0	0	0	0	0	4.9	0	4.8	4.8	0	4.9	1.5	1.3	4.9	-	-	0
Ref No.										IC6									1	
MODE \	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	4.7	4.7	0	1.4	2.1	0	1.7	5.0	1.7	5.1	2.1	1.7	2.0	0	0	0	0
PLAY	0	0	0	4.7	4.7	0	1.4	2.1	0	1.7	5.0	1.7	5.1	2.1	1.7	2.0	0	0	0	0
STOP	0	0	0	4.7	4.7	0	0	2.1	0	1.7	5.0	1.7	5.1	2.1	2.2	2.0	0	0	0	0
Ref No.										IC6										
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0	0	0	0	0	0	4.0	2.2	4.2	4.2	4.1	0.1	0	4.6	2.5	2.4	4.8	4.8	4.5
PLAY	0	0	0	0	0	0	0	4.0	2.2	4.2	4.2	4.1	0.1	0	4.6	2.5	2.4	4-8	4.8	0.2
STOP	0	0	0	0	0	0	0	4.0	2.2	4.2	4.2	4.1	0.1	0	4.6	0	2.4	4.8	5.0	0.2
Ref No.											001									
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	0	0	0	0	2.5	2.5	0	0	1.3	2.5	2.5	0	2.3	2.8	2.5	2.5	5.1	4.9	0
PLAY			0	0	0	2.5	2.5	0	0	1.3	2.5	2.5	0	2.3	2.8	2.5	2.5	5.1	4.9	0
	0	0		0	0	2.6	2.6	0	0	1.3	2.5	2.5	0	2.5	2.5	2.5	2.5		4.9	0
STOP	0	0	0	U														5.1	-	
STOP Ref No.	0	0	IC6002					IC6										5.1		
STOP Ref No. MODE	1	0	IC6002 3	4	5		1	2	3	4								5.1		
STOP Ref No. MODE REC	0 1 4.9	0 2 4.9	3 0	4	-		5.0	0	3 4.6	5.7								5.1		
STOP Ref No. MODE REC PLAY	1 4.9 4.9	0 2 4.9 4.9	3 0 0	4 - -	-		5.0 5.0	2 0 0	3 4.6 4.6	5.7 5.7								5.1		
STOP Ref No. MODE REC PLAY STOP	0 1 4.9	0 2 4.9	3 0	4	-		5.0	0	3 4.6	5.7 5.7 5.7								5.1		
STOP Ref No. MODE REC PLAY STOP Ref No.	1 4.9 4.9 4.9	0 2 4.9 4.9 4.9	3 0 0 0	4 - -	-		5.0 5.0 5.0	2 0 0 0	3 4.6 4.6 4.6	5.7 5.7 5.7 IC7	501									
STOP Ref No. MODE REC PLAY STOP Ref No. MODE	1 4.9 4.9 4.9	0 2 4.9 4.9 4.9	3 0 0 0	4 4	- - - 5	6	5.0 5.0 5.0	2 0 0 0	3 4.6 4.6 4.6	5.7 5.7 5.7 IC7	11	12	13	14	15	16	17	18	19	20
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC REC	1 4.9 4.9 4.9 4.9	0 2 4.9 4.9 4.9 4.9	3 0 0 0 0	4 - - - 4 4.8	- - - - 5 4.8	4.8	5.0 5.0 5.0 7 4.7	2 0 0 0	3 4.6 4.6 4.6 9 4.8	5.7 5.7 5.7 IC7 10	11	0	0	-	0	4.8	4.8	18 4.8	4.0	0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY	1 4.9 4.9 4.9 4.9 4.8	0 2 4.9 4.9 4.9 4.9	3 0 0 0 0	4 - - - 4 4.8 4.8	- - - 5 4.8 4.8	4.8 4.8	5.0 5.0 5.0 7 4.7 4.7	2 0 0 0 0 8 4.8 4.8	3 4.6 4.6 4.6 9 4.8	5.7 5.7 5.7 IC7 10	11 - -	0	0	-	0	4.8 4.8	4.8 4.8	18 4.8 4.8	4.0 4.0	0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP	1 4.9 4.9 4.9 4.9	0 2 4.9 4.9 4.9 4.9	3 0 0 0 0	4 - - - 4 4.8	- - - - 5 4.8	4.8	5.0 5.0 5.0 7 4.7	2 0 0 0	3 4.6 4.6 4.6 9 4.8	5.7 5.7 5.7 IC7 10 -	11 - -	0	0	-	0	4.8	4.8	18 4.8	4.0	0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No.	1 4.9 4.9 4.9 1 4.8 4.8	2 4.9 4.9 4.9 4.9 2 4.8 4.8	3 0 0 0 0 0 0	4 - - - 4 4.8 4.8 4.8	5 4.8 4.8 4.8	4.8 4.8 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7	2 0 0 0 8 4.8 4.8 4.8	3 4.6 4.6 4.6 4.8 4.8 4.8	5.7 5.7 5.7 IC7 10 - - IC7	11 - - - 501	0 0 0	0 0 0	-	0 0 0	4.8 4.8 4.8	4.8 4.8 4.8	18 4.8 4.8 4.8	4.0 4.0 4.0	0 0 0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE	1 4.9 4.9 4.9 1 4.8 4.8 4.8	2 4.9 4.9 4.9 2 4.8 4.8	3 0 0 0 0 0 0	4 - - 4 4.8 4.8 4.8	- - - 5 4.8 4.8 4.8	4.8 4.8 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7	2 0 0 0 8 4.8 4.8 4.8	3 4.6 4.6 4.6 9 4.8 4.8	5.7 5.7 5.7 10 - - - IC7 30	11 - - - 501 31	0 0 0	0 0 0	- - - 34	0 0 0	4.8 4.8 4.8	4.8 4.8 4.8	18 4.8 4.8 4.8	4.0 4.0 4.0	0 0 0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC REC	1 4.9 4.9 4.9 1 4.8 4.8 4.8	2 4.9 4.9 4.9 2 4.8 4.8 4.8	3 0 0 0 0 0 0 0 23 4.7	4 - - 4 4.8 4.8 4.8 4.8	- - - - 5 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7 4.7	2 0 0 0 8 4.8 4.8 4.8 4.8	3 4.6 4.6 4.6 9 4.8 4.8 4.8	5.7 5.7 1C7 10 - - IC7 30 3.7	11 - - - 501 31 3.8	0 0 0 32 4.1	0 0 0 33 3.2	- - - 34 4.8	0 0 0 35 4.8	4.8 4.8 4.8 36 4.8	4.8 4.8 4.8 37 0	18 4.8 4.8 4.8 4.8	4.0 4.0 4.0 39 4.8	0 0 0 40
STOP Ref No. MODE REC PLAY	1 4.9 4.9 4.9 1 4.8 4.8 4.8 21 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.8	3 0 0 0 0 0 0 0 23 4.7 4.7	4 	5 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7 4.7 4.8	2 0 0 0 8 4.8 4.8 4.8 4.8 0.5	3 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8	5.7 5.7 5.7 107 10 - - IC7 30 3.7	11 - - - 501 31 3.8 3.8	0 0 0 0 32 4.1 4.1	0 0 0 33 3.2 3.2	- - - 34 4.8 4.8	0 0 0 35 4.8 4.8	4.8 4.8 4.8 36 4.8 4.8	4.8 4.8 4.8 37 0	18 4.8 4.8 4.8 4.8 0	4.0 4.0 4.0 4.0 4.8 4.8	0 0 0 0 40 0
STOP Ref No. MODE REC PLAY STOP Ref No.	1 4.9 4.9 4.9 1 4.8 4.8 4.8	2 4.9 4.9 4.9 2 4.8 4.8 4.8	3 0 0 0 0 0 0 0 23 4.7	4 - - 4 4.8 4.8 4.8 4.8	- - - - 5 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7 4.7	2 0 0 0 8 4.8 4.8 4.8 4.8	3 4.6 4.6 4.6 9 4.8 4.8 4.8	5.7 5.7 5.7 107 10 - - - IC7 30 3.7 3.7	11 - - - 501 31 3.8 3.8 3.8	0 0 0 32 4.1	0 0 0 33 3.2	- - - 34 4.8	0 0 0 35 4.8	4.8 4.8 4.8 36 4.8	4.8 4.8 4.8 37 0	18 4.8 4.8 4.8 4.8	4.0 4.0 4.0 39 4.8	0 0 0 40
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC REC PLAY	1 4.9 4.9 4.9 1 4.8 4.8 4.8 4.8 0.4 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.8 4.6 4.6	3 0 0 0 0 0 0 0 0 0 0 0 0 0 4.7 4.7	4 	5 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7 4.7 4.8 4.8	2 0 0 0 8 4.8 4.8 4.8 0.5 0.5	3 4.6 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 10 - - - IC7 30 3.7 3.7 1C7	11 - - - 501 31 3.8 3.8 3.8	0 0 0 32 4.1 4.1 4.1	0 0 0 33 3.2 3.2 3.2	- - - 34 4.8 4.8 4.8	0 0 0 35 4.8 4.8	4.8 4.8 4.8 36 4.8 4.8	4.8 4.8 4.8 37 0 0	18 4.8 4.8 4.8 0 0	4.0 4.0 4.0 39 4.8 4.8	0 0 0 40 0 0
STOP Ref No. MODE REC PLAY	1 4.9 4.9 4.9 1 4.8 4.8 4.8 4.8 0.4 0.4 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.8 4.8	3 0 0 0 0 0 0 0 0 23 4.7 4.7 4.7	4 	5 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8 4.8 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7 4.7 4.8 4.8	2 0 0 0 0 8 4.8 4.8 4.8 4.8 0.5 0.5 0.5	3 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 10 - - - IC7 30 3.7 3.7 IC7 50	11 - - 501 31 3.8 3.8 3.8 501 51	0 0 0 32 4.1 4.1 4.1	0 0 0 33 3.2 3.2 3.2	- - - 34 4.8 4.8 4.8	0 0 0 35 4.8 4.8 4.8	4.8 4.8 4.8 36 4.8 4.8 4.8	4.8 4.8 4.8 37 0 0 0	18 4.8 4.8 4.8 0 0	4.0 4.0 4.0 39 4.8 4.8 4.8	0 0 0 0 40 0 0 0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC	1 4.9 4.9 4.9 1 4.8 4.8 4.8 4.8 0.4 0.4 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.6 4.6 4.6	3 0 0 0 0 0 0 0 0 0 23 4.7 4.7 4.7	4 	5 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8 4.8 4.8 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7 4.7 4.8 4.8 4.8	2 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 10 - - - IC7 30 3.7 3.7 3.7 1C7 50 -10.4	11 -501 31 3.8 3.8 3.8 501 51 -5.0	0 0 0 32 4.1 4.1 4.1 52 -10.4	0 0 0 33 3.2 3.2 3.2 3.2 -10.4	34 4.8 4.8 4.8 -10.4	0 0 0 35 4.8 4.8 4.8 55	4.8 4.8 4.8 36 4.8 4.8 4.8 4.8	4.8 4.8 4.8 37 0 0 0 57 -10.4	18 4.8 4.8 4.8 0 0 0 0	4.0 4.0 4.0 39 4.8 4.8 4.8 59 -5.8	0 0 0 40 0 0 0 0 -8.6
STOP Ref No. MODE REC PLAY STOP Ref No. PLAY	1 4.9 4.9 4.9 1 4.8 4.8 4.8 0.4 0.4 0.4 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.6 4.6 4.6 4.6	3 0 0 0 0 0 0 0 0 0 0 23 4.7 4.7 4.7	4 	- - - - 5 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8 4.8 4.8 4.8 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7 4.7 4.8 4.8 4.8 4.8	2 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 10 - - - IC7 30 3.7 3.7 IC7 50 -10.4	11 	0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3	0 0 0 33 3.2 3.2 3.2 3.2 53 -10.4	- - - 34 4.8 4.8 4.8 4.8 -10.4 -10.4	0 0 0 35 4.8 4.8 4.8 4.8 -4.9	4.8 4.8 4.8 36 4.8 4.8 4.8 4.8 -4.9	4.8 4.8 4.8 37 0 0 0 0 57 -10.4	18 4.8 4.8 4.8 0 0 0 0 58 -10.4 -4.6	4.0 4.0 4.0 39 4.8 4.8 4.8 59 -5.8	0 0 0 0 40 0 0 0 0 -8.6 -4.6
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE REF REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE	1 4.9 4.9 4.9 1 4.8 4.8 4.8 4.8 0.4 0.4 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.6 4.6 4.6	3 0 0 0 0 0 0 0 0 0 23 4.7 4.7 4.7	4 	5 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8 4.8 4.8 4.8	5.0 5.0 5.0 7 4.7 4.7 4.7 4.7 4.8 4.8 4.8	2 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 10 - - - 1C7 30 3.7 3.7 1C7 50 -10.4 -8.3	11 - - - - - - - - - - - - -	0 0 0 32 4.1 4.1 4.1 52 -10.4	0 0 0 33 3.2 3.2 3.2 3.2 -10.4	34 4.8 4.8 4.8 -10.4	0 0 0 35 4.8 4.8 4.8 55	4.8 4.8 4.8 36 4.8 4.8 4.8 4.8	4.8 4.8 4.8 37 0 0 0 57 -10.4	18 4.8 4.8 4.8 0 0 0 0	4.0 4.0 4.0 39 4.8 4.8 4.8 59	0 0 0 40 0 0 0 0 -8.6
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC REC PLAY STOP Ref No.	1 4.9 4.9 4.9 1 1 4.8 4.8 4.8 21 0.4 0.4 0.4 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.6 4.6 4.6 4.6 0 0	3 0 0 0 0 0 0 23 4.7 4.7 4.7	4 	5 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8 4.8 4.8 46 -8.3 -8.3	5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 4.8	2 0 0 0 8 4.8 4.8 4.8 4.8 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 10 - - IC7 30 3.7 3.7 1C7 50 -10.4 -8.3 -10.4	11 - - - - - - - - - - - - -	0 0 0 32 4.1 4.1 4.1 52 -10.4 -8.3	0 0 0 33 3.2 3.2 3.2 3.2 -10.4 -8.3	- - - 34 4.8 4.8 4.8 4.8 -10.4 -10.4	0 0 0 35 4.8 4.8 4.8 4.8 -4.9	4.8 4.8 4.8 36 4.8 4.8 4.8 4.8 -4.9 -2.2 -4.9	4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0	18 4.8 4.8 4.8 0 0 0 0 58 -10.4 -4.6 -10.4	4.0 4.0 4.0 39 4.8 4.8 4.8 59 -5.8 -0.4 -5.8	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6
STOP Ref No. MODE REC PLAY STOP Ref No. MODE	1 4.9 4.9 4.9 1 4.8 4.8 4.8 0.4 0.4 0.4 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.6 4.6 4.6 0 0	3 0 0 0 0 0 0 23 4.7 4.7 4.7 4.7	4 	5 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 26 4.8 4.8 4.8 4.8 4.8 66	5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 67	2 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 10 - - - 1C7 30 3.7 3.7 1C7 50 -10.4 -8.3 -10.4	11 - - 501 31 3.8 3.8 3.8 501 -5.0 -1.5 -5.0 501 71	0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3	0 0 0 33 3.2 3.2 3.2 3.2 -10.4 -8.3 -10.4	- - - 34 4.8 4.8 4.8 4.8 -10.4 -10.4 -10.4	0 0 0 35 4.8 4.8 4.8 4.8 55 -4.9 -0.6 -4.9	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 76	4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4	18 4.8 4.8 4.8 0 0 0 58 -10.4 -4.6 -10.4	4.0 4.0 4.0 4.8 4.8 4.8 4.8 59 -5.8 -0.4 -5.8	0 0 0 0 40 0 0 0 0 -8.6 -4.6 -8.6
STOP Ref No. MODE REC PLAY STOP	1 4.9 4.9 4.9 1 4.8 4.8 4.8 21 0.4 0.4 0.4 0.0 0 0	2 4.9 4.9 4.9 2 4.8 4.8 4.8 22 4.6 4.6 4.6 0 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 	5 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 66 0	5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 4.8 67	2 0 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 -10.4 -8.3 -10.4	3 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 10 - - - - - - - - - - - - - - - - - -	11 - - 501 31 3.8 3.8 3.8 501 51 -5.0 -1.5 -5.0 501 71 4.8	0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3 -10.4	0 0 0 33 3.2 3.2 3.2 3.2 -10.4 -8.3 -10.4	- - - - - - - - - - - - - - - - - - -	0 0 0 35 4.8 4.8 4.8 4.8 -4.9 -0.6 -4.9	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 56 -4.9 -2.2 -4.9	4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4	18 4.8 4.8 4.8 0 0 0 0 58 -10.4 -4.6 -10.4	4.0 4.0 4.0 4.0 39 4.8 4.8 4.8 4.8 59 -5.8 -0.4 -5.8	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6
STOP Ref No. MODE REC PLAY	1 4.9 4.9 4.9 4.8 4.8 4.8 4.8 0.4 0.4 0.4 0.0 0.0 0.4 0.4	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.6 4.6 4.6 0 0 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 	- - - - - - - - - - - - - - - - - - -	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 66 0 0	5.0 5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 4.8 67 -	2 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 -10.4 -8.3 -10.4	3 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 IC7 10 	11 - - - 501 31 3.8 3.8 3.8 3.8 501 -5.0 -1.5 -5.0 501 71 4.8 4.8	0 0 0 32 4.1 4.1 4.1 52 -10.4 -8.3 -10.4	0 0 0 33 3.2 3.2 3.2 3.2 53 -10.4 -8.3 -10.4	- - - - - - - - - - - - - - - - - - -	0 0 0 35 4.8 4.8 4.8 -4.9 -0.6 -4.9	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 56 -4.9 -2.2 -4.9	4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4	18 4.8 4.8 4.8 0 0 0 0 0 58 -10.4 -4.6 -10.4	4.0 4.0 4.0 4.0 39 4.8 4.8 4.8 59 -5.8 -0.4 -5.8	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6
STOP Ref No. MODE REC PLAY STOP Ref No. STOP Ref No. MODE	1 4.9 4.9 4.9 1 4.8 4.8 4.8 21 0.4 0.4 0.4 0.0 0 0	2 4.9 4.9 4.9 2 4.8 4.8 4.8 22 4.6 4.6 4.6 0 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 	5 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 66 0	5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 4.8 67	2 0 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 -10.4 -8.3 -10.4	3 4.6 4.6 4.6 9 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 IC7 10 - - - IC7 30 3.7 3.7 3.7 1C7 50 -10.4 -8.3 -10.4 IC7	11 - - 501 31 3.8 3.8 3.8 3.8 501 -5.0 -1.5 -5.0 501 71 4.8 4.8	0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3 -10.4	0 0 0 33 3.2 3.2 3.2 3.2 -10.4 -8.3 -10.4	- - - - - - - - - - - - - - - - - - -	0 0 0 35 4.8 4.8 4.8 4.8 -4.9 -0.6 -4.9	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 56 -4.9 -2.2 -4.9	4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4	18 4.8 4.8 4.8 0 0 0 0 58 -10.4 -4.6 -10.4	4.0 4.0 4.0 4.0 39 4.8 4.8 4.8 4.8 59 -5.8 -0.4 -5.8	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6
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STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC REC PLAY STOP Ref No.	1 4.9 4.9 4.9 1 1 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	2 4.9 4.9 4.9 4.8 4.8 4.8 4.6 4.6 4.6 4.6 -12.1 -8.6 -12.1 -8.6	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 		4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 66 0 0 0 0 0	5.0 5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 -8.3 -8.3 -8.3 -8.3 -8.3	2 0 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 IC7 10 - - - IC7 30 3.7 3.7 IC7 50 -10.4 -8.3 -10.4 IC7 70 - - - IC7 70 - - - - - - - - - - - - -	111 501 31 3.8 3.8 3.8 501 -5.0 -1.5 -5.0 501 4.8 4.8 4.8 501 91 0	0 0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3 -10.4 72 -	0 0 0 33 3.2 3.2 3.2 53 -10.4 -8.3 -10.4 73 -		0 0 0 35 4.8 4.8 4.8 4.8 -4.9 -0.6 -4.9 -75 -	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4 77 0 0 0	18 4.8 4.8 4.8 0 0 0 0 0 58 -10.4 -4.6 -10.4 78 0 0 0	4.0 4.0 4.0 4.0 39 4.8 4.8 4.8 4.8 59 -5.8 -0.4 -5.8 0 0 0	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6 0 0 0 0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC REC PLAY STOP Ref No. MODE	1 4.9 4.9 4.9 1 4.8 4.8 4.8 4.8 0.4 0.4 0.4 0.4 61 -8.6 -12.1 -8.6 0 0	2 4.9 4.9 4.9 4.8 4.8 4.8 4.6 4.6 4.6 4.6 -12.1 -8.6 82 0 0	IC6002 3 0 0 0 0 0 0 0 0 0 0	4 		4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 66 0 0 0 0 0	5.0 5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 -8.3 -8.3 -8.3 -8.3 -8.3	2 0 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 IC7 10 - - - IC7 30 3.7 3.7 IC7 50 -10.4 -8.3 -10.4 IC7 70 - - - IC7 70 - - - - - - - - - - - - -	111 501 31 3.8 3.8 3.8 501 -5.0 -1.5 -5.0 501 4.8 4.8 4.8 501 91 0	0 0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3 -10.4 72 -	0 0 0 33 3.2 3.2 3.2 53 -10.4 -8.3 -10.4 73 -		0 0 0 35 4.8 4.8 4.8 4.8 -4.9 -0.6 -4.9 -75 -	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4 77 0 0 0	18 4.8 4.8 4.8 0 0 0 0 0 58 -10.4 -4.6 -10.4 78 0 0 0	4.0 4.0 4.0 4.0 39 4.8 4.8 4.8 4.8 59 -5.8 -0.4 -5.8 0 0 0	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6 0 0 0 0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC	1 4.9 4.9 4.9 1 4.8 4.8 4.8 21 0.4 0.4 0.4 0.4 0.4 0.5 61 -8.6 -12.1 -8.6 0 0	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.6 4.6 4.6 4.6 62 -8.6 -12.1 -8.6 0 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 		4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 66 0 0 0 0 0	5.0 5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 -8.3 -8.3 -8.3 -8.3 -8.3	2 0 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 IC7 10 - - - IC7 30 3.7 3.7 IC7 50 -10.4 -8.3 -10.4 IC7 70 - - - IC7 70 - - - - - - - - - - - - -	111 501 31 3.8 3.8 3.8 501 -5.0 -1.5 -5.0 501 4.8 4.8 4.8 501 91 0	0 0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3 -10.4 72 -	0 0 0 33 3.2 3.2 3.2 53 -10.4 -8.3 -10.4 73 -		0 0 0 35 4.8 4.8 4.8 4.8 -4.9 -0.6 -4.9 -75 -	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4 77 0 0 0	18 4.8 4.8 4.8 0 0 0 0 0 58 -10.4 -4.6 -10.4 78 0 0 0	4.0 4.0 4.0 4.0 39 4.8 4.8 4.8 4.8 59 -5.8 -0.4 -5.8 0 0 0	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6 0 0 0 0
STOP Ref No. MODE REC PLAY	1 4.9 4.9 4.9 4.8 4.8 4.8 4.8 4.8 4.1 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	2 4.9 4.9 4.9 4.8 4.8 4.8 4.6 4.6 4.6 4.6 0 0 0 0 0 82 -8.6 -12.1 -8.6 0 0	IC6002 3 0 0 0 0 0 0 0 0 0 0	4 		4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 66 0 0 0 0 0	5.0 5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 -8.3 -8.3 -8.3 -8.3 -8.3	2 0 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 IC7 10 - - - IC7 30 3.7 3.7 IC7 50 -10.4 -8.3 -10.4 IC7 70 - - - IC7 70 - - - - - - - - - - - - -	111 501 31 3.8 3.8 3.8 501 -5.0 -1.5 -5.0 501 4.8 4.8 4.8 501 91 0	0 0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3 -10.4 72 -	0 0 0 33 3.2 3.2 3.2 53 -10.4 -8.3 -10.4 73 -		0 0 0 35 4.8 4.8 4.8 4.8 -4.9 -0.6 -4.9 -75 -	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4 77 0 0 0	18 4.8 4.8 4.8 0 0 0 0 0 58 -10.4 -4.6 -10.4 78 0 0 0	4.0 4.0 4.0 4.0 39 4.8 4.8 4.8 4.8 59 -5.8 -0.4 -5.8 0 0 0	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6 0 0 0 0
STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC	1 4.9 4.9 4.9 1 4.8 4.8 4.8 21 0.4 0.4 0.4 0.4 0.4 0.5 61 -8.6 -12.1 -8.6 0 0	2 4.9 4.9 4.9 2 4.8 4.8 4.8 4.6 4.6 4.6 4.6 62 -8.6 -12.1 -8.6 0 0	IC6002 3 0 0 0 0 0 0 0 0 0 0	4 	5 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 66 0 0 0 0 0	5.0 5.0 5.0 5.0 7 4.7 4.7 4.7 4.8 4.8 4.8 4.8 -8.3 -8.3 -8.3 -8.3 -8.3	2 0 0 0 0 8 4.8 4.8 4.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	3 4.6 4.6 4.6 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	5.7 5.7 5.7 IC7 10 - - - IC7 30 3.7 3.7 IC7 50 -10.4 -8.3 -10.4 IC7 70 - - - IC7 70 - - - - - - - - - - - - -	111 501 31 3.8 3.8 3.8 501 -5.0 -1.5 -5.0 501 4.8 4.8 4.8 501 91 0	0 0 0 0 32 4.1 4.1 4.1 4.1 52 -10.4 -8.3 -10.4 72 -	0 0 0 33 3.2 3.2 3.2 53 -10.4 -8.3 -10.4 73 -		0 0 0 35 4.8 4.8 4.8 4.8 -4.9 -0.6 -4.9 -75 -	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 37 0 0 0 57 -10.4 -5.0 -10.4 77 0 0 0	18 4.8 4.8 4.8 0 0 0 0 0 58 -10.4 -4.6 -10.4 78 0 0 0	4.0 4.0 4.0 4.0 39 4.8 4.8 4.8 4.8 59 -5.8 -0.4 -5.8 0 0 0	0 0 0 0 0 0 0 0 0 -8.6 -4.6 -8.6 0 0 0 0

Ref No.	Q1	501		Q1	502			Q3001				Q3003				Q3004		T		
MODE	E	С		E	С		Е	С	В		Е	С	В		Е	С	В			
REC	0	4.6		0	4.9		1.6	5.0	2.2		5.0	5.9	5.6		1.7	5.1	3.4			
PLAY	0	4.7		0	4.9		1.6	5.0	2.2		5.0	5.9	5.6		1.7	5.1	3.4			
STOP	0	4.7		0	4.9		1.6	5.0	2.2		5.0	5.9	5.6		1.7	5.1	3.4			
Ref No.		Q3901				Q3902				Q4001				Q4002				Q4081		
MODE	Е	С	В		Е	С	В		Е	С	В		Е	С	В		Е	С	В	
REC	3.3	5.0	3.9		2.9	0	2.2		-19.4	10.4	-28.1		-19.4	0	-28.1		0	5.1	-0.6	
PLAY	3.3	5.0	3.9		2.9	0	2.2		0	0	0.7		0	0	0.7		0	0.3	0.3	
STOP	3.3	5.0	3.9		2.9	0	2.2		0	0	0.7		0	0	0.7		0	0.3	0.3	
Ref No.		Q4084				Q4501				Q4502				Q4801				Q4802		
MODE	Е	С	В		Е	С	В		Е	С	В		Е	С	В		Е	С	В	
REC	5.7	5.6	4.9		12.6	12.5	11.8		5.1	5.7	5.8		0	0	-0.6		0	0	-0.6	
PLAY	5.7	0.4	5.7		12.6	12.5	11.8		5.1	5.7	5.8		0	0	-0.6		0	0	-0.6	
STOP	5.7	0.4	5.7		12.6	12.5	11.8		5.1	5.7	5.8		0	0	-0.6		0	0	-0.6	
Ref No.		Q4803				Q4804				Q7501										
MODE	Е	С	В		Е	С	В		Е	С	В									
REC	0	0	-0.1		0	0	-0.1		-10.1	-10.1	-9.4									
PLAY	0	0	-0.1		0	0	-0.1		-10.1	-10.1	-9.4									
STOP	0	0	-0.1		0	0	-0.1		-10.1	-10.1	-9.4									
Ref No.		QR4001				QR4082				QR4501				QR4502				QR4503		
MODE	Е	С	В		Е	С	В		Е	С	В		Е	С	В		Е	С	В	
REC	5.1	-28.1	4.8		0	0.1	4.8		0	0	4.6		0	0	0		0	0	0	
PLAY	5.1	5.0	0		0	5.7	0		0	0	4.6		0	0	0		0	0	0	
STOP	5.1	5.0	0		0	5.7	0		0	0	4.6		0	0	0		0	0	0	
Ref No.		QR4504			-	QR4801	-			QR4802				QR4803				QR4804		\vdash
MODE	E	C	В		E	C	В		E	C	В		E	C	В		E	C	В	\vdash
REC	0	0	0		5.9	-0.1	5.9		0	0	-0.1		0	0	2.2		0	5.9	0	\vdash
PLAY	0	0	0		5.9	-0.1	5.9		0	0	-0.1		0	0	2.2		0	5.9	0	\vdash
STOP	0	QR4807	0		5.9	-0.1 QR4810	5.9		0	0 QR4816	-0.1		0	QR7502	2.2		0	5.9 QR7504	0	\vdash
Ref No. MODE	Е		В		Е	C C	В		E		В		Е	QH7502	В		E	QH7504	В	
REC	0.1	-0.1	0 B		0	0	4.8		0	C 0	-0.1		4.9	4.8	0 B		0	4.9	0 0	\vdash
PLAY			_			_	4.8		_					4.8			_	4.9	0	
STOP	0.1	-0.1 -0.1	0		0	0	4.8		0	0	-0.1 -0.1		4.9	4.8	0		0	4.9	0	

14.1.3. Front (L) P.C.B.

Ref No.		IC7701										
MODE	1	2	3									
STOP	4.8	0	4.9									

14.1.4. Front (R) P.C.B.

Ref No.		QR2750	1	(QR2750	3		QR2750						
MODE	Е	С	В	Е	С	В	Е	С	В					
STOP	0	5.1	0	0	0	4.8	0	5.1	0					

14.1.5. P56001 Connector

Ref No.										P56	001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	3.3	3.3	0	3.3	0	4.9	0	4.8	0	0.1	0	0	0	3.0	0	5.0	0	3.3	4.1	0
PLAY	3.3	3.3	0	3.3	0	4.9	0	4.8	0	0.1	0	0	0	3.0	0	5.0	0	3.3	4.1	0
STOP	3.3	3.3	0	3.3	0	4.9	0	4.8	0	0.1	0	0	0	3.0	0	5.0	0	3.3	4.1	0
Ref No.										P56	001									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.3	1.4	0	0	4.9	4.9	0	0	5.8	4.9	0	0	3.3	0	0	0	5.1	2.1	0	0
PLAY	3.3	1.4	0	0	4.9	4.9	0	0	5.8	4.9	0	0	3.3	0	0	0	5.1	2.1	0	0
STOP	3.3	1.4	0	0	4.9	4.9	0	0	5.8	4.9	0	0	3.3	0	0	0	5.1	2.1	0	0
Ref No.										P56	001									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	3.3	1.2	3.3	0	0	0	3.5	0.6	3.5	0	3.5	0.5	0	0	12.2	0.6	0	0	1.7	0.7
PLAY	3.3	1.2	3.3	0	0	0	3.5	0.6	3.5	0	3.5	0.5	0	0	12.2	0.6	0	0	1.7	0.7
STOP	3.3	1.2	3.3	0	0	0	3.5	0.6	3.5	0	3.5	0.5	0	0	12.2	0.6	0	0	1.7	0.7
Ref No.										P56										
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	1.7	0	1.7	0.5	0	0	2.2	2.3	0	0	0	5.0	0	0	0	0	0	2.5	0	2.5
PLAY	1.7	0	1.7	0.5	0	0	2.2	2.3	0	0	0	5.0	0	0	0	0	0	2.5	0	2.5
STOP	1.7	0	1.7	0.5	0	0	2.2	2.3	0	0	0	5.0	0	0	0	0	0	2.5	0	2.5
Ref No.										P56	001									
MODE	81	82	83	84	85	86	87	88												
REC	0	0	3.3	2.5	0	2.5	3.3	0												
PLAY	0	0	3.3	2.5	0	2.5	3.3	0												
STOP	0	0	3.3	2.5	0	2.5	3.3	0												

14.1.6. Waveform Chart

IC6001-18(TW2001) REC	IC6001-19 PLAY	IC6001-50 REC/PLAY	IC6001-52 REC/PLAY	IC6001-79 FF/REW
5.0Vp-p (10msec.div.)	5.0Vp-p (5msec.div.)	2.2Vp-p (20usec.div.)	2.2Vp-p (20usec.div.)	5.0Vp-p (1msec.div.)
IC6001-80 FF/REW	IC6001-86(TL2015) PLAY	IC6001-90 REC	IC6001-94 REC	IC6001-95 REC
5.0Vp-p (1msec.div.)	0.7Vp-p (0.5msec.div.)	5.0Vp-p (10msec.div.)	2.4Vp-p (10msec.div.)	2.4Vp-p (10msec.div.)
IC6001-97(TW2002) PLAY 4.4Vp-p (5msec.div.)				
IC2501-22,23,25 PLAY 8.0Vp-p (2msec.div.)				
IC3001-6 REC/PLAY 0.9Vp-p (2msec.div.)	IC3001-19 REC 1.0Vp-p (20usec.div.)	IC3001-29 REC/PLAY 2.4Vp-p (20usec.div.)	IC3001-36 PLAY 0.5Vp-p (20usec.div.)	IC3001-57 REC/PLAY 0.2Vp-p (20usec.div.)
IC3001-67 PLAY 0.5Vp-p (0.5usec.div.)	IC3001-80 REC/PLAY 0.5Vp-p (10msec.div.)	IC3001-86 REC 1.4Vp-p (20usec.div.)	IC3001-98 REC 1.5Vp-p (1msec.div.)	02199 (20000001)
IC4501-21(TW4501) REC 1.1Vp-p (20usec.div.)	IC4501-53 REC/PLAY 1.6Vp-p (0.5msec.div.)	IC4501-57 REC/PLAY 1.6Vp-p (0.5msec.div.)		

IC1110-5 STOP 360Vp-p (5usec.div)	T1110-1 STOP 20Vp-p (2msec.div)			
, ,	, ,			
~~~		V W 10 10	WV.	
T1130-4 STOP 20Vp-p (2msec.div)	T1110-4 STOP 36Vp-p (5usec.div)	T1130-6 STOP 300Vp-p (5usec.div)	T1130-8 STOP 25Vp-p (5usec.div)	
P37101-78,80 REC/PLAY 0.8Vp-p (1msec.div)	P37101-64 REC/PLAY 1.0Vp-p (20usec.div.)	P37101-60 REC/PLAY 0.8Vp-p (20usec.div.)	P37101-56 REC/PLAY 0.6Vp-p (20usec.div)	
ото тр р (оотал.)	1.0 V p (200000.div.)	0.0 VP P (200000.div.)	0.0 V p p (200000.div)	
P37101-52 REC/PLAY	P37101-48 REC/PLAY	P37101-42 REC/PLAY		
1.0Vp-p (20usec.div.)	0.6Vp-p (20usec.div.)	1.0Vp-p (20usec.div)		
JK3902-3 REC/PLAY 2.0Vp-p (20usec.div)	JK3902-4 REC/PLAY 1.5Vp-p (20usec.div)	JK3902-16 REC/PLAY 2.0Vp-p (20usec.div)		
JK3902-14 REC/PLAY 1.2Vp-p (20usec.div)	JK3902-18 REC/PLAY 1.2Vp-p (20usec.div)	JK3902-22 REC/PLAY 2.0Vp-p (20usec.div)		

### 14.2. Abbreviations

#### 14.2.1. DVD

IN	NITIAL /LOGO	ABBREVIATIONS
A	AO~UP ACLK ADO~UP ADATA ALE AMUTE AREQ ARF ASI	ABBREVIATIONS  ADDRESS AUDIO CLOCK ADDRESS BUS AUDIO PES PACKET DATA ADDRESS LATCH ENABLE AUDIO MUTE AUDIO PES PACKET REQUEST AUDIO RF SERVO AMP INVERTED INPUT
В	ASO ASYNC BCK BCKIN BDO BLKCK	SERVO AMP OUTPUT AUDIO WORD DISTINCTION SYNC BIT CLOCK (PCM) BIT CLOCK INPUT BLACK DROP OUT SUB CODE BLOCK CLOCK
	BOTTOM BYP BYTCK	CAP. FOR BOTTOM HOLD BYPATH BYTE CLOCK
С	CAV CBDO CD CDSCK CDSRDATA CDRF CDV CHNDATA CKSL CLV COFTR CPA CPCS CPDT CPUADR CPUADR CPUADT CPUIRQ CPRD CPWR CS CSYNCIN CSYNCOUT	CONSTANT ANGULAR VELOCITY CAP. BLACK DROP OUT COMPACT DISC CD SERIAL DATA CLOCK CD SERIAL DATA CD RF (EFM) SIGNAL COMPACT DISC-VIDEO CHANNEL DATA SYSTEM CLOCK SELECT CONSTANT LINEAR VELOCITY CAP. OFF TRACK CPU ADDRESS CPU CHIP SELECT CPU DATA CPU ADDRESS LATCH CPU ADDRESS DATA BUS CPU INTERRUPT REQUEST CPU READ ENABLE CPU WRITE ENABLE CHIP SELECT COMPOSITE SYNC IN COMPOSITE SYNC OUT
D	DACCK DEEMP DEMPH DIGO~UP DIN DMSRCK DMUTE DO DOUTO~UP DRF DRPOUT DREQ DRESP DSC DSLF DVD	D/A CONVERTER CLOCK DEEMPHASIS BIT ON/OFF DEEMPHASIS SWITCHING FL DIGIT OUTPUT DATA INPUT DM SERIAL DATA READ CLOCK DIGITAL MUTE CONTROL DROP OUT DATA OUTPUT DATA SLICE RF (BIAS) DROP OUT SIGNAL DATA REQUEST DATA RESPONSE DIGITAL SERVO CONTROLLER DATA SLICE LOOP FILTER DIGITAL VIDEO DISC

INI	TIAL/LOGO	ABBREVIATIONS
E	EC ECR	ERROR TORQUE CONTROL ERROR TORQUE CONTROL REFERENCE
	ENCSEL ETMCLK ETSCLK	ENCODER SELECT EXTERNAL M CLOCK (81MHz/40.5MHz) EXTERNAL S CLOCK (54MHz)
F	FBAL FCLK FE FFI FEO FG FSC FSCK	FOCUS BALANCE FRAME CLOCK FOCUS ERROR FOCUS ERROR AMP INVERTED INPUT FOCUS ERROR AMP OUTPUT FREQUENCY GENERATOR FREQUENCY SUB CARRIER FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
Н	HA0~UP HD0~UP HINT HRXW	HOST ADDRESS HOST DATA HOST INTERRUPT HOST READ/WRITE
I	IECOUT IPFRAG IREF ISEL	IEC958 FORMAT DATA OUTPUT INTERPOLATION FLAG I (CURRENT) REFERENCE INTERFACE MODE SELECT
L	LDON LPC LRCK	LASER DIODE CONTROL LASER POWER CONTROL L CH/R CH DISTINCTION CLOCK
M	MA0~UP MCK MCKI MCLK MDATA MDQ0~UP MDQM MLD MPEG	MEMORY ADDRESS MEMORY CLOCK MEMORY CLOCK INPUT MEMORY SERIAL COMMAND CLOCK MEMORY SERIAL COMMAND DATA MEMORY DATA INPUT/OUTPUT MEMORY DATA I/O MASK MEMORY SERIAL COMMAND LOAD MOVING PICTURE EXPERTS GROUP
0	ODC OFTR OSCI OSCO OSD	OPTICAL DISC CONTROLLER OFF TRACKING OSCILLATOR INPUT OSCILLATOR OUTPUT ON SCREEN DISPLAY
Р	P1~UP PCD PCK PDVD PEAK PLLCLK PLLOK PWMCTL PWMDA PWMOA, B	PORT CD TRACKING PHASE DIFFERENCE PLL CLOCK DVD TRACKING PHASE DIFFERENCE CAP. FOR PEAK HOLD CHANNEL PLL CLOCK PLL LOCK PWM OUTPUT CONTROL PULSE WAVE MOTOR DRIVE A PULSE WAVE MOTOR OUT A, B

I	NITIAL/LOGO	ABBREVIATIONS
R	RE RFENV RFO RS RSEL RST RSV	READ ENABLE RF ENVELOPE RF PHASE DIFFERENCE OUTPUT (CD-ROM) REGISTER SELECT RF POLARITY SELECT RESET RESERVE
S	SBIO, 1 SBOO SBTO, 1 SCK SCKR SCL SCLK SDA SEGO~UP SELCLK SEN SIN1, 2 SOUT1, 2 SPDI SPPO SPEN SPRCLK SQCK SQCX SRDATA SRMADR SRMDT0~7 SS STAT STCLK STDO~UP STENABLE STYALID SUBC SBCK SUBQ SYSCLK	SERIAL DATA INPUT SERIAL DATA OUTPUT SERIAL CLOCK SERIAL DATA CLOCK AUDIO SERIAL CLOCK RECEIVER SERIAL CLOCK SERIAL CLOCK SERIAL CLOCK SERIAL DATA FL SEGMENT OUTPUT SELECT CLOCK SERIAL PORT ENABLE SERIAL DATA IN SERIAL PORT DATA INPUT SERIAL PORT DATA OUTPUT SERIAL PORT RW ENABLE SERIAL PORT RW ENABLE SERIAL PORT RW ENABLE SERIAL PORT READ CLOCK SUB CODE Q CLOCK SUB CODE Q DATA READ CLOCK SUB CODE Q DATA READ CLOCK SERIAL DATA SRAM ADDRESS BUS SRAM DATA BUS 0~7 STATUS STREAM DATA CLOCK STREAM DATA STREAM DATA POLARITY SELECT STREAM DATA VALIDITY SUB CODE SERIAL SUB CODE CLOCK SUB CODE SERIAL SUB CODE CLOCK SUB CODE SERIAL SUB CODE CLOCK SUB CODE Q DATA SYSTEM CLOCK
Т	TE TIBAL TID TIN TIP TIS TPSN TPSO TPSP TRCRS TRON TRSON	TRACKING ERROR BALANCE CONTROL BALANCE OUTPUT 1 BALANCE INPUT BALANCE INPUT BALANCE OUTPUT 2 OP AMP INPUT OP AMP OUTPUT OP AMP INVERTED INPUT TRACK CROSS SIGNAL TRACKING ON TRAVERSE SERVO ON

		DMR-EZ47VP / DMI
I	NITIAL/LOGO	ABBREVIATIONS
V	VBLANK VCC	V BLANKING COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD VFB	DRAIN POWER SUPPLY VOLTAGE VIDEO FEED BACK
	VREF VSS	VOLTAGE REFERENCE SOURCE POWER SUPPLY VOLTAGE
W	WAIT WDCK WEH WSR	BUS CYCLE WAIT WORD CLOCK WRITE ENABLE HIGH WORD SELECT RECEIVER
X	X XALE XAREQ XCDROM XCS XCSYNC XDS XHSYNCO XHINT XI XINT XMW XO XRE XSRMCE XSRMCE XSRMOE XSRMWE XVCS XVDS	X´TAL  X ADDRESS LATCH ENABLE  X AUDIO DATA REQUEST  X CD ROM CHIP SELECT  X CHIP SELECT  X COMPOSITE SYNC  X DATA STROBE  X HORIZONTAL SYNC OUTPUT  XH INTERRUPT REQUEST  X´TAL OSCILLATOR INPUT  X INTERRUPT  X MEMORY WRITE ENABLE  X´TAL OSCILLATOR OUTPUT  X READ ENABLE  X SRAM CHIP ENABLE  X SRAM OUTPUT ENABLE  X SRAM WRITE ENABLE  X SRAM WRITE ENABLE  X SRAM WRITE ENABLE  X SRAM OUTPUT ENABLE  X SRAM OUTPUT ENABLE  X Y-DEC CONTROL BUS STROBE

#### 14.2.2. VHS

	1	1	
443NT [L]	4.43 NTSC (L)	BIL	BILINGUAL
A. COMP	AUDIO COMPONENT SIGNAL	BIL [L]	BILINGUAL (L)
A. COMPO	AUDIO COMPONENT SIGNAL	BIL. [H]	BILINGUAL (H)
A. D.P [L]	AUDIO DUBBING PAUSE (L)	BIL/M1 [L]	BILINGUAL (L)
A. D/L [L]	AUDIO DUBBING PAUSE (L)	BS CLOCK	BS CLOCK
A. DEF [S]	AUDIO DEFEAT	BS DATA	BS DATA
A. DEF [S] [L]	AUDIO DEFEAT	BS LCH IN	BS L CHANNEL INPUT
A. DUB P [L]	AUDIO DUBBING PAUSE (L)	BS MIX [H]	BS MIX (H)
A. DUB [H]	AUDIO DUBBING (H)	BS MON [H]	BS MONITOR (H)
A. ERASE	AUDIO ERASE	BS MONI [H]	BS MONITOR (H)
A. H. SW	AUDIO HEAD SWITCHING PULSE	BS RCH IN	BS R CHANNEL INPUT
A. HEAD [R]	AUDIO HEAD (REC)	BS VIDEO	BS VIDEO SIGNAL
A. HEAD [W]	AUDIO HEAD (PLAY)	BS VIDEO/BS1	BS VIDEO SIGNAL
A. IN [L]	AUDIO INPUT (L)	BS [H]	BS (H)
A. IN [R]	AUDIO INPUT (R)	BS. LEVEL	BS LEVEL
A. MUT [H]	AUDIO MUTE (H)	BS. M [H]	BS MONITOR (H)
A. MUTE [H]	AUDIO MUTE (H)	BS/VTR [H]	BS/VTR (H)
A. OUT [L]	AUDIO MOTE (I)	BUS CLK	BUS CLOCK
A. OUT [R]	AUDIO OUTPUT (R)	BUS LSN	BUS LISTEN
A. RF OUT	AUDIO OUTPUT (K) AUDIO RF SIGNAL OUTPUT	BUS TLK	BUS TALK
A/VS/S. DATA	AV SW/SERIAL DATA	BUZZER	BUZZER
AC ONLINE	AC ONLINE	CAP EC	CAPSTAN TORQUE CONTROL
AC. O/EE. H	AC ONLINE AC ONLINE/EE H	CAP M GND	CAPSTAN MOTOR GND
AFC S C	AFC S CURVE	CAP. ET	CAPSTAN MOTOR GND  CAPSTAN TORQUE CONTROL
AFC [S]		CAP. FG1	CAPSTAN FG1 PULSE
AFC. DEF	AFC S CURVE AFC DEFEAT	CAP. FG2	CAPSTAN FGT FULSE
ARFC OUT	AUDIO RF SIGNAL OUTPUT	CAS. SW	CASSETTE SW
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL	CCN	PLAYBACK CONTROL SIGNAL (-)
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL ARTIFICIAL VERTICAL SYNC	CCP	PLAYBACK CONTROL SIGNAL (+)
ART. V. IVIIVI		CHM	` '
ART. V/H/N	SIGNAL MONO MULTI	CHP	CONTROL SIGNAL (+) CONTROL SIGNAL (-)
ART. V/H/N	ARTIFICIAL VERTICAL SYNC	CINEM [L]	_ ' '
AT. V/H/N	SIGNAL H/NORMAL	CINEMA [L]	CINEMA (
	ARTIFICIAL VERTICAL SYNC SIGNAL	CINEMA/MIX	CINEMA (L.
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE	CKL	CINEMA/MIX RATCH LOCK
AUDIO IN [L]	AUDIO INPUT (L)	CKS	
AUDIO IN [R]	AUDIO INPUT (R)	CL	SHIFT LOCK
AUDIO OUT [L]	AUDIO OUTPUT (L)	CLK	CLOCK
AUDIO OUT [R]	AUDIO OUTPUT (R)		CLOCK
AUDIO SELECT [H]	AUDIO SELECT (H)	CLK (C.G) CLOCK. IN	CLOCK
AUDIO. L	AUDIO (L)		CLOCK INPUT
AUDIO. R	AUDIO (R)	CLP	CLAMP
AV CNT	AV CONTROL	COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
AV CTL	AV CONTROL	COLOR [H]	COLOUR (H)
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK	CONV	CONVERTOR
AV. C.M.	AV CONTROL MODE	CS	CHIP SELECT
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)	CTL GND	CONTROL HEAD (1)
AVSW/METER. L	AV SW/LEVEL METER (L)	CTL HEAD [+]	CONTROL HEAD (+)
B MODE. H	B MODE (H)	CTL HEAD [-]	CONTROL HEAD (-)
B.G.P	BURST GATE PULSE	CTL [+]	CONTROL HEAD (+)
BACKUP 5V	BACK UP 5V	CTL [-]	CONTROL HEAD (-)
BAND. U.E.	BAND U	CUE BIAS	CUE BIAS
BANDVL. D	BAND VL	CURRENT LIM	CURRENT LIMMITER
BI/MI [L]	BILINGUAL/MIX L	CYL ET	CYLINDER TORQUE CONTROL

		1	
CYL GND	CYLINDER GND	FULL. E. 12V	FULL ERASE 12V
D.F.M. REC [H]	DELAIED FM RECORDING (H)	GND [A]	GND (ANALOG)
D. FM REC [L]	DELAIED FM RECORDING L	GND [TU]	GND (TUNER)
D. GND	DIGITAL GND	GND/N. SW. 12V	GND/NON SW 12V
D. REC [H]	DELAYED RECORDING (H)	H. SYNC	HORIZONTAL SYNC
D4/S. LED	D4/STILL LED	H. AMP. SW	HEAD AMP SW PULSE
D4/STILLED	D4/STILL LED	H. P <r></r>	HEAD PHONE (R)
DAC [CLK]	TUNER DAC (CLOCK)	H. P <l></l>	HEAD PHONE (L)
DAC/FSCS	TUNER DAC/FS CHIP SELECT	H. P GND	HEAD PHONE GND
DAREC [H]	DELAYED AUDIO RECORDING (H)	H. P OUT [L]	HEAD PHONE OUTPUT (L)
DATA	DATA	H. P OUT [R]	HEAD PHONE OUTPUT (R)
DECODER [L]	DECODER (L)	H. SW	HEAD SW PULSE
DECODER [R]	DECODER (R)	HEAD PHONE [L]	HEAD PHONE (L)
DEW	DEW	HEAD PHONE [R]	HEAD PHONE (R)
DEW SNS	DEW SENSOR	HEAD SW	HEAD SW
DFMRE [H]	DELAYED FM AUDIO RECORDING (H)	HEATER [+]	HEATER (+)
E. REC 5V	EXCEPT RECORDING 5V	HEATER [-]	HEATER (-)
EC SV	ERROR TORQUE CONTROL	HSS	HORIZONTAL SYNC SIGNAL
ECR	ERROR TORQUE CONTROL		
ECK		HTR [+]	HEATER (+)
EDT TDIC (I.)	REFERENCE VOLTAGE	HTR [-]	HEATER (-)
EDT TRIG [L]	EDIT TRIGGER (L)	IRFE	REFERENCE CURRENT
EDIT [H]	EDIT (H)	ICL	CONTROL AGC CIRCUIT
EE [H]	EE (H)	IF IN OFLAA	INTERMEDIATE FREQUENCY
EE [H]/INS [M]	EE H/INSERT M	IN SELA1	INPUT SELECT A1 POSITION
EE. VV. TR	EE/VV/TRICK PLAY	IN SELA2	INPUT SELECT A2 POSITION
EJECT. PO	EJECT POSITION	IN SELA3	INPUT SELECT A3 POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK	INS L/R [L]	INSERT Lch/Rch (L)
ENV. SEL	ENVELOPE SELECT	INS. [H]	INSERT (H)
ENVE. OUT	ENVELOPE OUTPUT	INSEL A1	INPUT SELECT A1 POSITION
ENVE. SEL	ENVELOPE SELECT	INSEL A2	INPUT SELECT A2 POSITION
ENV SELECT	ENVELOPE SELECT	INSERT	INSERT
EP [H]	LP (H)	INSERT [H]	INSERT (H)
EP/LP [H]	LP (f)	IO CS	INPUT/OUTPUT CHIP SELECT
EP/LP/SP	LP/SP	JOG1	JOG1
EP/SS [H]	LP/SLOW/STILL/STOP (H)	JOG S3 LED/FOWRD	JOG LED/FORWARD LED
EPROMCS	EPROM CHIP SELECT	JOG/F. LED	JOG LED/FORWARD LED
EX. REC 5V	EXCEPT RECORDING 5V	JSB [H]	JSB (H)
FF/REW [L]	FIRST FORWARD/REWIND (L)	JST. CLCK	JUST CLOCK
FG1 IN	FG1 PULSE INPUT	JST. CLK	JUST CLOCK
FG2 IN	FG2 PULSE INPUT	JST. CLOCK	JUST CLOCK
FILTER ADJUSTMENT	FILTER ADJUSTMENT	L. OUT	Lch OUTPUT
FLY ERASE [H]	FLYING ERASE HEAD ON (H)	L. CH [H]	Lch (H)
FLY ON [H]	FLYING ERASE HEAD ON (H)	L. CH [L]	Lch (L)
FLY. E [H]	FLYING ERASE HEAD ON (H)	LED (MAIN)	LED (MAIN)
FM MUT [H]	FM AUDIO MUTE (H)	LED (STEREO)	LED (STEREO)
FM MUTE [H]	FM AUDIO MUTE (H)	LED (SUB)	LED (SUB)
FM OUT [L]	FM OUTPUT (L)	LED CKL	LED SERIAL CLOCK
FM OUT [R]	FM OUTPUT (R)	LED CKS	LED SERIAL CLOCK
FM PACK OUT [L]	FM PACK OUTPUT (L)	LED DATA	LED SERIAL DATA
FM PACK OUT [R]	FM PACK OUTPUT (R)	LINE IN 1 [L]	LINE INPUT 1 (L)
FM/BS SEL [L]	FM/BS SELECT (L)	LINE IN 1 [R]	LINE INPUT 1 (R)
FM/BS SEL [R]	FM/BS SELECT (R)	LINE IN 2 [L]	LINE INPUT 2 (L)
FS. CLK	FS CLOCK	LINE IN 2 [R]	LINE INPUT 2 (R)
FUL. E [H]	FULL ERASE HEAD ON (H)	LINE IN V	LINE INPUT VIDEO
FULL. E [H]	FULL ERASE HEAD ON (H)	LINE IN [L]	LINE INPUT (L)

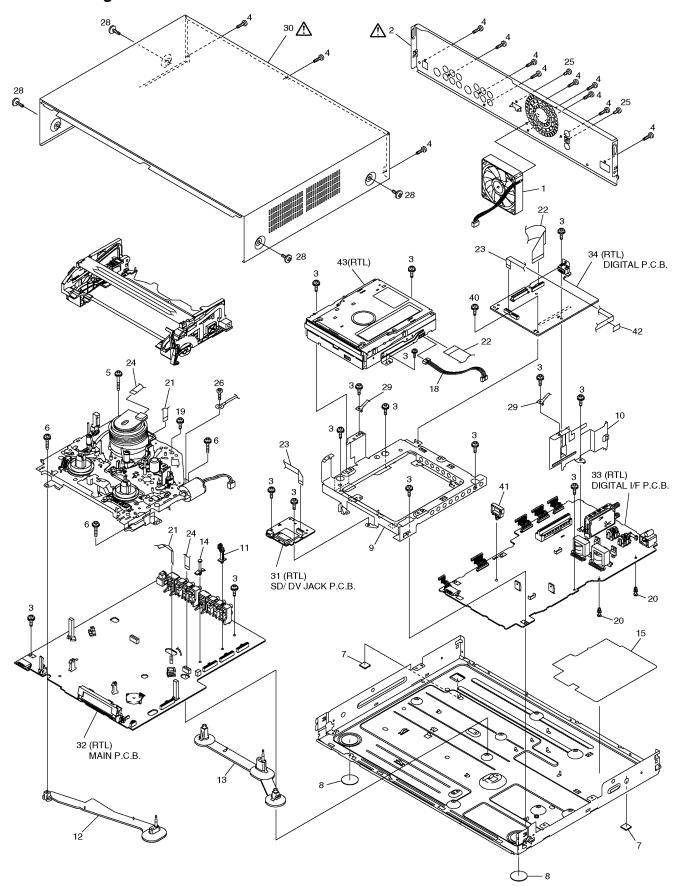
		П	
LINE IN [R]	LINE INPUT (R)	P-OFF [H]	POWER OFF (H)
LINE OUT [L]	LINE OUTPUT (L)	P-OFF [L]	POWER OFF L
LINE OUT [R]	LINE OUTPUT (R)	P. FAIL	POWER FAILURE DETECT
LP [H]	LP (H)	P. OFF [H]	POWER OFF (H)
LPTRI [L]	LP TRICK PLAY (L)	P. OFF [L]	POWER OFF (L)
Lch/A. DUB	Lch/AUDIO DUBBING	PAL [H]	PAL (H)
M GND	MOTOR GND	PAL [L]/NTSC [H]	PAL Û/NTSC 🕀
M REG	MOTOR REGULATOR	PB ADJ OUT	PLAYBACK ADJUST OUTPUT
MAIN OUT	MAIN OUTPUT	PB OUT	PLAYBACK OUTPUT
MAIN [L]	MAIN (L)	PB. H	PLAYBACK (H)
MAIN/MONO	MAIN/MONAURAL	PFG	PG/FG
MAX IN	MAXIMAM INPUT	PHOTSN +B	PHOTO SENSOR +B
MES [H]	MESECAM (H)	PICT. CNT	PICTURE CONTROL
MESE [H]	MESECAM (H)	PLAY LED/RVS LED	PLAY LED/REVERSE LED
MESE [L]	MESECAM (L)	PLAY, PO	PLAY POSITION
METER 5V	LEVEL METER 5V	PLAY/R. LED	PLAY LED/REVERSE LED
METER [L]	LEVEL METER (L)	PLY/DEW	PLAY/DEW (H)
METER [R]	LEVEL METER (R)	POWER OFF [L]	POWER OFF L
METER. L/AVS	LEVEL METER (L)	PREROLL [H]	PREROLL (H)
METER. R/AVC	LEVEL METER (R)	PWRFAIL	POWER FAILURE DETECT
MI/BI [L]	MIX ⊕/BILIGUAL	R. CH [H]	Rch (H)
MIC GND	MIC GND	R. CH [L]	Rch (L)
MIC IN	MIC INPUT	R. ST	RESET
MIC IN [L]	MIC INPUT (L)	R/S/F	REVERSE (H/STOP (M/FORWARD (L)
MIC IN [R]	MIC INPUT (R)	RCH [H]	Rch (H)
MIC [H]	MIC H	REC 12V	RECORDING 12V
MIX [H]	MIX (H)	REC CHROMA	RECORDING CHROMINANCE SIGNAL
MIX [H]/CINEMA [L]	MIX (H)/CINEMA SOUND (L)	REC H	RECORDING (H)
MIX/CINE	MIX (B)/CINEMA SOUND (L)	REC IN	RECORDING INPUT
MIX/CINEMA [L]	MIX (B)/CINEMA SOUND (L)	REC OUT [L]	RECORDING OUTPUT (L)
MN. H/M. L	MONAURAL (H)/MAIN (L)	REC START	RECORDING START
MN. H/MAI. L	MONAURAL (H)/MAIN (L)	REC VR [C]	RECORDING VOLUME (COMMON)
MN2/MES. L	MONAURAL 2/MESECAM L	REC VR [L]	RECORDING VOLUME (L)
MODE SEL	AUDIO MODE SELECT	REC VR [R]	RECORDING VOLUME (R)
MODE SW	AUDIO MODE SW	REC Y	RECORDING LUMINANCE SIGNAL
MODE. S. IN	AUDIO MODE SELECT INPUT	REC [H]	RECORDING (H)
MODE. S. OUT	AUDIO MODE SELECT OUTPUT	REC. C	RECORDING CHROMINANCE SIGNAL
MONO [H]	MONAURAL (H)	REC. Y	RECORDING LUMINANCE SIGNAL
MONO [H]/MAIN [L]	MONAURAL H/MAIN L	REC/EE CTL	RECORDING/EE CONTROL
MONO2 [L]	MONAURAL 2	REEL-T	REEL PULSE (TAKE-UP)
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM L)	REEL-S	REEL PULSE (SUPPLY)
MOTOR GND	MOTOR GND	REGULATOR FILTER	REGULATOR FILTER
MUTE	MUTE	RESET	RESET
N. A. REC [L]	NORMAL AUDIO RECORDING	REV M F/R	REVIEW MOTOR
N. SW 12V	NON SW 12V		FORWARD/REVERSE
N. SW. 5. DET	NON SW 5V DETECT	REV M V1	REVIEW MOTOR V1
NICAM	NICAM	REV M V2	REVIEW MOTOR V2
NICAM [L]	NICAM L	REV MOTOR F/R	REVIEW MOTOR
NOL [H]	PAL (H)/4.43 NTSC (M)/3.58 NTSC (L)		FORWARD/REVERSE
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY (H)	REV MOTOR V1	REVIEW MOTOR V1
NORMAL [H]	NORMAL (H)	REV MOTOR V2	REVIEW MOTOR V2
NR BIAS	NR BIAS	REV MOTOR [+]	REVIEW MOTOR (+)
NTSC [L]	NTSC L	REV MOTOR [-]	REVIEW MOTOR (+)
OCH	CONTROL AGC CIRCUIT	REV. M. GND	REVIEW MOTOR GND
OUT	OUTPUT	RF. CHROMA	RF CHROMINANCE SIGNAL

			T
RF OUT	RF OUTPUT	SYSCON 5V	SYSTEM CONTROL 5V
RF Y	RF LUMINANCE SIGNAL	SYSTEM	SYSTEM SW
RF. Y. IN	RF LUMINANCE SIGNAL INPUT	T-PHOTO	TAKE-UP PHOTO TRANSISTOR
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT	T-RL. PLS	TAKE-UP REEL PULSE
ROTAR. SW	ROTARY SW	T. BUSCLK	TIMER BUS CLOCK
ROTARY	ROTARY SW	T. BUSLSN	TIMER BUS LISTEN
RST	RESET	T. BUSTLK	TIMER BUS TALK
RST [L]	RESET (L)	T. END [L]	TAPE END (L)
Rch/INST	Rch/INSERT	T. PHOTO	TAKE-UP PHOTO TRANSISTOR
SIN	SERIAL DATA INPUT	TAPE END [L]	TAPE END (L)
SOUT	SERIAL DATA OUTPUT	TAPE END [L]/CAM	TAPE END ①/CAMERA PAUSE
S-PHOTO	SUPPLY PHOTO TRANSISTOR	TEST	TEST MODE
S-RL. PLS	SUPPLY REEL PULSE	TPZ	TRAPEZOIDAL WAVE CIRCUIT
S. CLK	SERIAL CLOCK	TRIC [L]	TRIC PLAY (L)
S. CLK/AV	SERIAL CLOCK/AV	TRICK [L]	TRIC PLAY L
S. DATA	SERIAL DATA	TRK. ENV	AUTO TRACKING ENVELOPE DETECT
S. DATA/A	SERIAL DATA	TU. AUDIO	TUNER AUDIO
S. PHOTO	SUPPLY PHOTO TRANSISTOR	TU. GND	TUNER GND
S. TAB [L]	SAFETY TAB SW ON (L)	TU. V. IN	TUNER VIDEO SIGNAL INPUT
S/P/N	SECAM/PAL/NTSC	TU. VIDEO	TUNER VIDEO
SC IN	SERIAL CLOCK INPUT	TUN NOR IN	TUNER NORMAL INPUT
SC OUT	SERIAL CLOCK OUTPUT	TUN R	TUNER AUDIO (R)
SCK SELECT	SERIAL CLOCK SELECT	TUN. AUDIO IN	TUNER AUDIO INPUT
SEL OUT [L]	SELECT OUTPUT (L)	TUNER 12V	TUNER 12V
SEL OUT [R]	SELECT OUTFUT (E)	TUNER L	TUNER AUDIO (L)
SHUTTLE 1	SHUTTLE 1	TUNER V IN	TUNER VIDEO SIGNAL INPUT
SIF	SOUND INTERMEDIATE FREQUENCY	TUNER [L]	TUNER AUDIO (L)
		TUNER [N]	TUNER AUDIO (NORMAL)
SLMUT [H]	INPUT SELECT MUTE (H)		
SLNID [+]	SOLENOID (+)	TUNER [R] TUNER. 12	TUNER AUDIO (R) TUNER 12V
SLNID [-]	SOLENOID (-) SLOW TRACKING MONO MULTI		_
SLW TR. MM		TUOFF [H] TV. AUDIO	TUNER OFF (H)
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE		TV AUDIO
ONIO ONID		TV/VTR	TV/VTR
SNS. GND	SENSOR GND	TXTON [L]	TEXT ON (L)
SOFT [H]	SOFT TAPE PLAY (I) NORMAL (I)	U. REG45V	UNREGULATOR 45V
SOFT [H]/NORMAL	SOFT TAPE PLAY (B)/NORMAL (B)	UNREG	UNREGULATOR
SOLENOID ON [L]	SOLENOID ON L	UNREG19V	UNREGULATOR 19V
SP [H]	SP (H)	V. REF	REFERENCE VOLTAGE
SP/L/SLP	SP/LP	V. EE [H]	VIDEO EE (H)
SSS [L]	SLOW/STILL/STOP	V. EE [L]	VIDEO EE (L)
STEREO LED	STEREO LED	VCO REF	REFERENCE OSCILLATER
STEREO [H]	STEREO (H)	VD. IN	VIDEO SIGNAL INPUT
STEREO [L]	STEREO (L)	VD. OUT	VIDEO SIGNAL OUTPUT
STOP. PO	STOP POSITION	VIDEO EE [L]	VIDEO EE L
STOP/5V	STOP POSITION/5V	VIDEO IN	VIDEO SIGNAL INPUT
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT	VIDEO OUT	VIDEO SIGNAL OUTPUT
STOP1/PAL:ST	STOP1 POSITION/PAL	VM	MOTOR VOLTAGE
STOP2. PO	STOP 2 POSITION	VM DOWN [L]	MOTOR VOLTAGE DOWN (L
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW	VSS	VERTICAL SYNC SIGNAL
STREO [H]	STEREO (H)	VTR [H]	VTR (H)
SUB BIAS	SUB BIAS	VTR. 12V	VTR 12V
SUB. SW	SUB SW	X IN	OSCILLATOR INPUT
SVHS CAS [L]	S-VHS CASSETTE L	X OUT	OSCILLATOR OUTPUT
SW. 5. DET	SW 5V DETECT		
SYNC [L]	SYNC (L)		
	· · · · · · · · · · · · · · · · · · ·		

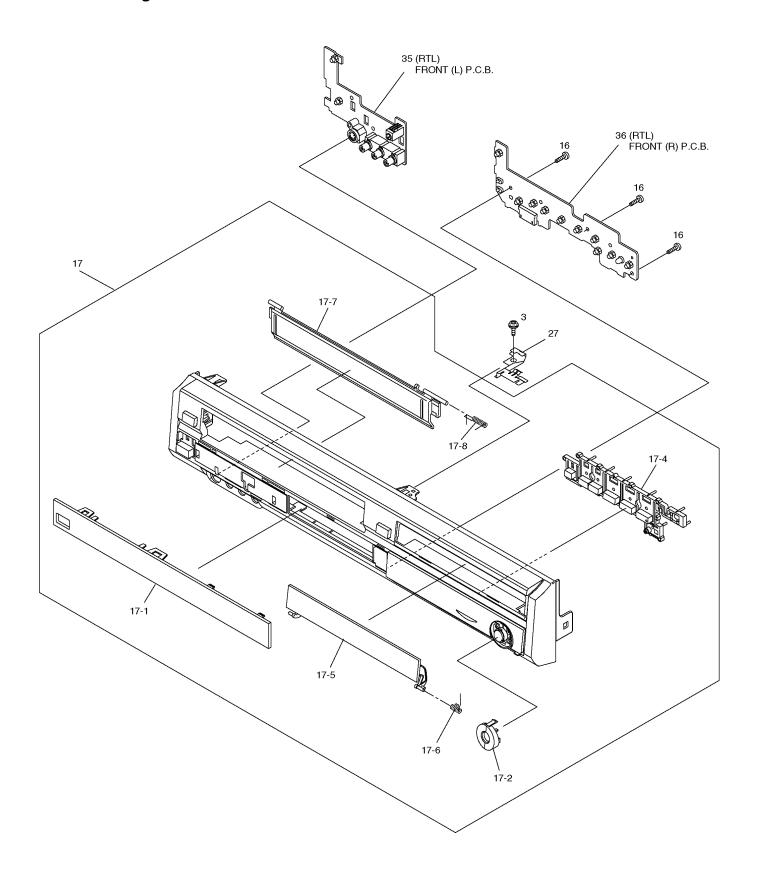
# 15 Parts and Exploded Views

## 15.1. Exploded Views

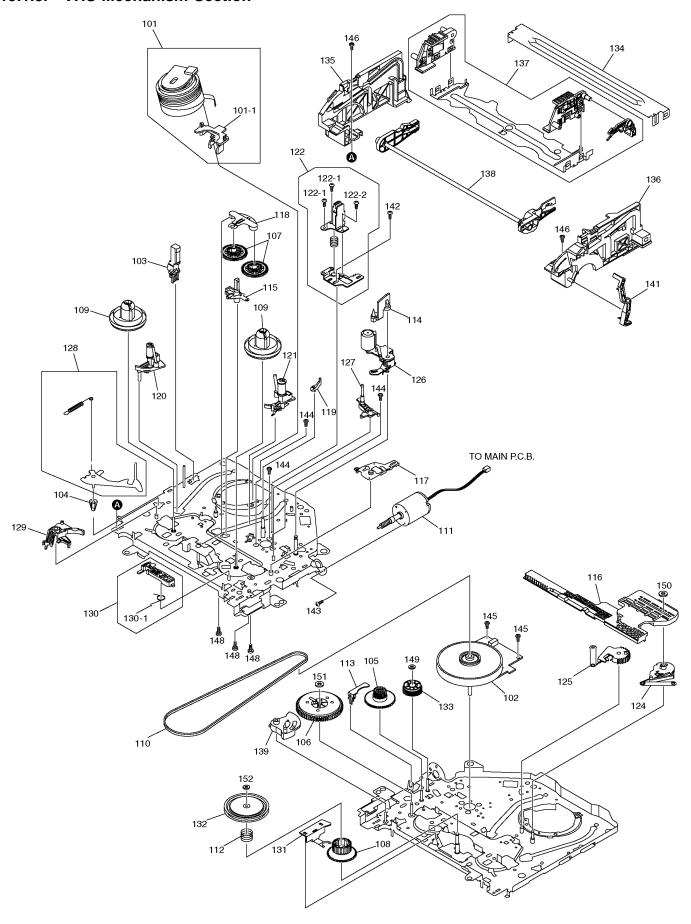
### 15.1.1. Casing Parts & Mechanism Section1



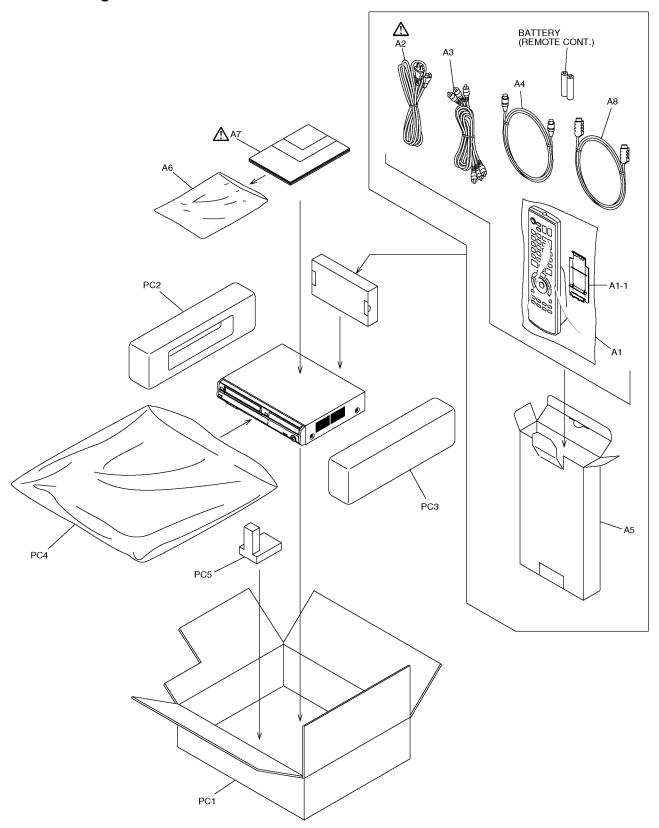
### 15.1.2. Casing Parts & Mechanism Section 2



#### 15.1.3. VHS Mechanism Section



### 15.1.4. Packing & Accessories Section



#### 15.2. Replacement Parts List

#### Notes:

*Important safety notice:

Components identified by  $\triangle$  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fireretardant (resistors), high-quality sound (capacitors), lownoise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

*Warning: This product uses a laser diode. Refer to caution statements.

*Capacity values are in microfarads (µF) unless specified otherwise, P=Pico-farads (pF), F=Farads (F).

*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).

*The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

*"(IA)", mark in Remarks indicates language of instruction manual. [(IA): English]

*All parts are supplied by PAVCSG.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP06G37A	MAIN P.C.B.	1	(RTL)
_	VEFU0G3/A	MAIN F.C.B.		(KIL)
C2001	ECJ1VC1H330J	50V 33P	1	
C2002	ECJ1VB0J105K	6.3V 1U	1	
C2003	ECJ1VF1A105Z	10V 1U	1	
C2051	F1J0J106A014	6.3V 10U	1	
C2052	F1J0J106A014	6.3V 10U	1	
C2053	F2A1C1000021	16V 10P	1	
C2054	ECJ1VB1H392K	50V 3900P	1	
C2055	ECJ1VF1C104Z	16V 0.1U	1	
C2099	F1H1H681A799	50V 0.68U	1	
C2501	ECJ1VF1C104Z	16V 0.1U	1	
C2502	F2A0J101A825	6.3V 100U	1	
C2504	ECJ1VB1E223K	25V 0.022U	1	
C2505	ECJ1VB1E223K	25V 0.022U	1	
C2506	ECJ1VB1A224K	10V 0.22U	1	
C2507	ECJ1VB1H102K	50V 1000P	1	
C2508	ECJ1VB1H182K	50V 1800P	1	
C2509	F2A1C220B100	16V 22P	1	
C2510	F1H1C104A071	16V 0.1U	1	
C2511	F1H1C104A071	16V 0.1U	1	
C2512	F1H1C104A071	16V 0.1U	1	
C2513	ECJ1VF1A105Z	10V 1U	1	
C2515	ECJ1VF1H103Z	50V 0.01U	1	
C2518	ECJ1VF1H103Z	50V 0.01U	1	
C2519	ECJ1VF1H103Z	50V 0.01U	1	
C2551	ECJ1VB1C473K	16V 0.047U	1	
C2552	ECJ1VB1C683K	16V 0.068U	1	
C2561	ECJ1VB1C683K	16V 0.068U	1	
C2562	ECJ1VB1C473K	16V 0.047U	1	
C2571	F2A1C2210095	16V 220P	1	
C3001	ECJ1VC1H151J	50V 150P	1	
C3002	F1H1C104A071	16V 0.1U	1	
C3003	F1H1C104A071	16V 0.1U	1	
C3004	F2A1C100B099	16V 10P	1	
C3005	F1H1H220A799	50V 22P	1	
C3006	F1H1C104A071	16V 0.1U	1	
C3007	ECJ1VF1H103Z	50V 0.01U	1	
C3008	F2A1H4R7B033	50V 4.7U	1	
C3009	ECJ1VB0J105K	6.3V 1U	1	
C3010	ECJ1VB0J105K	6.3V 1U	1	

Ref. No.	Part No.	Part Name &	Pcs	Remarks
G2011	B1 111 G1 0 4 3 0 7 1	Description	1	
C3011 C3012	F1H1C104A071 F2A0J470A824	16V 0.1U 6.3V 47P	1	
C3012	F2A1C100B099	16V 10P	1	
C3014	F1H1C104A071	16V 0.1U	1	
C3015	ECJ1VB0J105K	6.3V 1U	1	
C3016	F1H1C104A071	16V 0.1U	1	
C3017	F1H1C104A071	16V 0.1U	1	
C3019	F1H1C104A071	16V 0.1U	1	
C3020	F2A1H3R3B032	50V 3.3U	1	
C3021	F2A1V100A824	35V 10U	1	
C3023	ECJ1VB1H103K	50V 0.01U	1	
C3024	ECJ1VC1H331J	50V 330P	1	
C3025	ECJ1VF1H103Z	50V 0.01U	1	
C3028	F2A1H4R7B033	50V 4.7U	1	
C3029	F2A1HR47B032	50V 47U	1	
C3030	ECJ1VB1E223K	25V 0.022U	1	
C3031	ECJ1VB1C333K	16V 0.033U	1	
C3032	F2A1H4R7B033	50V 4.7U	1	
C3033	F1H1C104A071	16V 0.1U	1	
C3034	F2A1H2R2B032	50V 2.2U	1	
C3035	F1H1H472A798	50V 4700P	1	
C3036	F2A0J470A824	6.3V 47P	1	
C3037	F1H1C104A071	16V 0.1U	1	
C3038	ECJ1VC1H040C	50V 4P	1	
C3039	F2A1H1R0B032	50V 1U	1	
C3040	ECJ1VF1H103Z	50V 0.01U	1	
C3041	ECJ1VF1H103Z	50V 0.01U	1	
C3044	F1H1C104A071	16V 0.1U	1	
C3048	ECJ1VB1H103K	50V 0.01U	1	
C3050	F1H1C104A071	16V 0.1U	1	
C3053	F1H1C104A071	16V 0.1U	1	
C3074	F1H1C104A071	16V 0.1U	1	
C3701	F2A1E470B030	25V 47U	1	
C3702	F1H1C104A071	16V 0.1U	1	
C3704	ECJ1VB0J105K	6.3V 1U	1	
C3707	F2A1H220B040	50V 22U	1	
C3708	ECJ1VB1C333K	16V 0.033U	1	
C3709	F2A1E470B030	25V 47U	1	
C3710	F1H1C104A071	16V 0.1U	1	
C3711	F1H1C104A071	16V 0.1U	1	
C3712	F1H1C104A071	16V 0.1U	1	
C3714	F2A1C470B110	16V 47P	1	
C3715	ECJ1VF1H103Z	50V 0.01U	1	
C3716	ECJ1VB1H103K	50V 0.01U	1	
C3717	ECJ1VB1H103K	50V 0.01U	1	
C3718	ECJ1VB1H103K	50V 0.01U	1	
C3719	ECJ1VB1H103K	50V 0.01U	1	
C3720	ECJ1VB1H103K	50V 0.01U	1	
C3721	ECJ1VB1H103K	50V 0.01U	1	
C3722	ECJ1VB1H103K	50V 0.01U	1	
C3723	ECJ1VF1H103Z	50V 0.01U	1	
C3724	ECJ1VF1H103Z	50V 0.01U	1	
C3726	F2A0J102A833	6.3V 1000P	1	
C3728	F2A0J331A832	6.3V 330P	1	
C3729	ECJ1VB1H103K	50V 0.01U	1	
C3730	F2A0J331A832	6.3V 330P	1	
C3731	ECJ1VB1H103K	50V 0.01U	1	
C3733	F2A0J102A833	6.3V 1000P	1	
C3735	F2A0J102A833	6.3V 1000P	1	
C3739	ECJ1VB1H103K	50V 0.01U	1	
C3740	F2A1C470B110	16V 47P	1	
C3908	ECJ1VF1H103Z	50V 0.01U	1	
C3918	ECJ1VF1C104Z	16V 0.1U	1	
C3919	ECJ1VF1H103Z	50V 0.01U	1	
C3925	ECJ1VB0J105K	6.3V 1U	1	
C3926	ECJ1VB0J105K	6.3V 1U	1	
C3927	F1H1C104A071	16V 0.1U	1	
C3928	F2A0J101A245	6.3V 100U	1	
C3932	ECJ1VF1H103Z	50V 0.01U	1	
C3932	F2A0J471A247	6.3V 470U	1	
C4001	ECQB1H333JF3	50V 0.033U	1	
01001	-c*51113330E3	123. 0.0330		

	T	T	1_ 1	
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4004	ECJ1VB1H182K	50V 1800P	1	
C4005	F2A0J220A878	6.3V 22P	1	
C4006	F2A1H4R7B033	50V 4.7U	1	
C4007	ECJ1VB1H182K	50V 1800P	1	
C4008 C4009	F2A1H3R3B032 F2A0J330A824	50V 3.3U 6.3V 33P	1	
C4011	ECJ1VB1H103K	50V 0.01U	1	
C4012	F2A1H4R7B033	50V 4.7U	1	
C4013	ECJ1VF1H103Z	50V 0.01U	1	
C4017	F2A1C100B099	16V 10P	1	
C4019	F2A1C100B099	16V 10P	1	
C4081	ECJ1VB1E223K	25V 0.022U	1	
C4082 C4083	ECJ1VB1H471K	50V 470P 6.3V 47P	1	
C4083	F2A0J470A824 ECJ1VB1H182K	50V 1800P	1	
C4501	ECQB1H473JF3	50V 0.047U	1	
C4502	F2A1C100B099	16V 10P	1	
C4503	F2A1C100B099	16V 10P	1	
C4504	F2A1C100B099	16V 10P	1	
C4505	F2A0J330A824	6.3V 33P	1	
C4506	F2A1C100B099	16V 10P	1	
C4507	F2A0J220A878	6.3V 22P	1	
C4508	ECJ1VB1C333K ECJ1VF1H103Z	16V 0.033U	1	
C4509 C4510	ECJ1VF1H103Z ECJ1VF1H103Z	50V 0.01U 50V 0.01U	1	
C4510	F1H1C104A071	16V 0.1U	1	
C4512	ECJ1VB1A224K	10V 0.22U	1	
C4513	F2A0J220A878	6.3V 22P	1	
C4514	F2A1C100B099	16V 10P	1	
C4515	F2A0J330A824	6.3V 33P	1	
C4516	F2A1C100B099	16V 10P	1	
C4517	F2A0J220A878	6.3V 22P	1	
C4518	ECJ1VF1H103Z	50V 0.01U	1	
C4519 C4520	ECJ1VF1C104Z F2A0J220A878	16V 0.1U 6.3V 22P	1	
C4520	F2A1C100B099	16V 10P	1	
C4522	ECQB1H473JF3	50V 0.047U	1	
C4523	F2A1C220B100	16V 22P	1	
C4524	F1H1C104A071	16V 0.1U	1	
C4525	F2A1C101B102	16V 100P	1	
C4526	F2A1C100B099	16V 10P	1	
C4527	F2A1C100B099	16V 10P	1	
C4528 C4529	F2A1C100B099 F2A1C100B099	16V 10P 16V 10P	1	
C4529 C4530	F2A1C100B099	16V 10P	1	
C4531	ECJ1VB1C105K	16V 1U	1	
C4532	ECJ1VB1C105K	16V 1U	1	
C4534	ECQB1H153JF3	50V 0.015U	1	
C4535	ECQB1H153JF3	50V 0.015U	1	
C4537	ECJ2VC1H560G	50V 56P	1	
C4538	ECJ1VF1H103Z	50V 0.01U	1	
C4801 C4802	ECJ1VC1H102J ECJ1VC1H102J	50V 1000P	1	
C4802 C4803	F2A1C100B110	16V 1000P	1	
C4804	F2A1C100B110	16V 10P	1	
C4805	F2A1C100B099	16V 10P	1	
C4806	F2A1C100B099	16V 10P	1	
C4807	F2A1C2210095	16V 220P	1	·
C4808	ECJ1VF1H103Z	50V 0.01U	1	
C4809	F2A1C100B110	16V 10P	1	
C4810	F2A1C100B110	16V 10P	1	
C4811 C4812	F2A1H4R7B040 F2A1V100A831	50V 4.7U 35V 10U	1	
C4812 C4813	F2A1V100A831	35V 10U	1	
C4814	F2A1C101B110	16V 100P	1	
C4815	ECJ1VF1C104Z	16V 0.1U	1	
C4816	F2A1H1R0B040	50V 1U	1	
C4817	F2A1H1R0B040	50V 1U	1	
C4818	F2A1H1R0B040	50V 1U	1	
C4819	F2A1C221B111	16V 220P	1	
C4820	F2A1H1R0B040	50V 1U	1	
C4821	ECJ1VC1H820J	50V 82P	1 1	
C4822	ECJ1VF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4823	ECJ1VB1H103K	50V 0.01U	1	
C4827	ECJ1VF1C104Z	16V 0.1U	1	
C4828	ECJ1VC1H820J	50V 82P	1	
C4829	F2A1C101B110	16V 100P	1	
C4830	ECJ1VB1H102K	50V 1000P	1	
C4831		16V 0.1U	1	
C4832	F2A0J470A599	6.3V 47U	1	
C4833	ECQV1H104JL3	50V 0.1U	1	
C4834	ECJ1VF1C104Z	16V 0.1U	1	
C4835		16V 0.1U	1	
C4836	ECJ1VB1C105K	16V 1U	1	
C4837	<del> </del>	16V 470P	1	
C4838		16V 470P	1	
C4839 C4840	F2A1H1R0B040	16V 1U	1	
C4841	ECJ1VB1H102K	50V 1U 50V 1000P	1	
C4842	F2A1H1R0B040	50V 1U	1	
C4845	ECJ1VC1H121J	50V 120P	1	
C4846	ECJ1VC1H121J	50V 120P	1	
C4847	<del> </del>	16V 100P	1	
C4848		25V 47U	1	
C4849	F2A1E470B030	25V 47U	1	
C4850		16V 47P	1	
C5001	ECJ1VB1H103K	50V 0.01U	1	
C5002	ECJ1VB1H103K	50V 0.01U	1	
C5003	ECJ1VB1H103K	50V 0.01U	1	
C5004	ECJ1VB1H103K	50V 0.01U	1	
C5005	F1H1C104A071	16V 0.1U	1	
C5006	F2A0J101A825	6.3V 100U	1	
C5007	ECJ1VF1C104Z	16V 0.1U	1	
C5008	ECJ1VB0J105K	6.3V 1U	1	
C6001	ECJ1VC1H180J	50V 18P	1	
C6002	F1H1H220A799	50V 22P	1	
C6003	ECJ1VF1C104Z	16V 0.1U	1	
C6005	F2A1H3R3B032	50V 3.3U	1	
C6008	ECJ1VC1H471J	50V 470P	1	
C6009	ECJ1VF1H103Z	50V 0.01U	1	
C6010	ECJ1VC1H120J	50V 12P	1	
C6011	ECJ1VC1H120J	50V 12P	1	
C6012 C6014	ECJ1VF1C104Z ECJ1VB1H102K	16V 0.1U 50V 1000P	1	
C6015		16V 0.033U	1	
C6016	ECJ1VB1H102K	50V 1000P	1	
C6019	F1J1H104A689		1	
C6020	ECJ1VB1H102K	50V 1000P	1	
C6100	ECJ1VF1C104Z	16V 0.1U	1	
C6101	ECJ1VF1H103Z	50V 0.01U	1	
C6102	ECJ1VF1A105Z	10V 1U	1	
C6103	ECJ1VC1H561J	50V 560P	1	
C6104	ECJ1VF1H103Z	50V 0.01U	1	
C6308	ECJ1VB0J105K	6.3V 1U	1	
C7501	ECJ1VF1H103Z	50V 0.01U	1	
C7502	ECJ1VF1H103Z	50V 0.01U	1	
C7503	ECJ1VF1H103Z	50V 0.01U	1	
C7504	ECJ1VF1C104Z	16V 0.1U	1	
C7505	F2A0J471A832	6.3V 470P	1	
C7508	ECJ1VF1C104Z	16V 0.1U	1	
C7509	ECJ1VF1C104Z	16V 0.1U	1	
C7510	ECJ1VC1H180J	50V 18P	1	
C7511	F1H1H150A799	50V 15P	1	
C7514	ECJ1VF1C104Z	16V 0.1U	1	
C7515	ECJ1VF1A105Z	10V 1U	1	
D1 501	B3EA00000070	T.ED	1	
D1501		LED	1	
D2001 D2002	B0AACK000004 B0AACK000004	DIODE	1	
D2002 D2501	B0EAKL000062	DIODE	1	
D2501 D2502	MAZ4160NMF	DIODE	1	
D3001	MAZ4100NHF	DIODE	1	
D4501	B0AACK000004	DIODE	1	
D4502	MAZ4056NHF	DIODE	1	
D4801	MA2C165001VT	DIODE	1	
D7502	B0AACK000004	DIODE	1	
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Ref. No.   Part No.   Part Name & Pos   Description   D7506   BOAACK000004   DIODE   1   D7507   MAZ4091NHF   DIODE   1   D7507   D7	47VP / DMR-E2	Z475VP			
D7507	Ref. No.	Part No.		Pcs	Remarks
D7507	D7506	B0AACK000004		1	
DP7501 A2BD0000168 DISPLAY TUBE 1  IC1511 B3NAA0000117 IC 1  IC2001 C0CBCDC00052 IC 1  IC2201 C1AB00002083 IC 1  IC3001 C1AB00001938 IC 1  IC3701 C1AB00002183 IC 1  IC4801 AN3656NFBPEV IC 1  IC4801 C07BAR000438 IC 1  IC4801 C07BAR000438 IC 1  IC4801 C07BAR000438 IC 1  IC4801 C07BAR000438 IC 1  IC4802 C1AB00001919 IC 1  IC4803 C0CBCCC00027 IC 1  IC4804 C1AB00001920 IC 1  IC4804 C1AB00001920 IC 1  IC4806 C0ABBB000216 IC 1  IC6601 C2CBHF0000474 IC 1  IC6601 C2CBHF0000474 IC 1  IC6501 C0CBCCC00052 IC 1  IC7503 C0EBC00055 IC 1  IC7501 K5H102A0011 IC PROTECTOR 1  IC7501 K5H102A0011 IC PROTECTOR 1  IX3902 K1U717B00005 JACK,DVD 1  JX3903 K1U718B0003 JACK,DVD 1  JX3903 K1U718B0003 JACK,DVD 1  JX3903 K1U718B0003 JACK,DVD 1  JX3904 ERJ3GEY0ROOV 1/10W 0 1  K3904 ERJ3GEY0ROOV 1/10W 0 1  K4506 ERJ3GEY0ROOV 1/10W 0 1  K4506 ERJ3GEY0ROOV 1/10W 0 1  L3002 G0C271JA0019 COIL 2TUR 1  L3003 G0C270JA0019 COIL 2TUR 1  L3004 G0C680JA0019 COIL 2TUR 1  L3005 G0C270JA0019 COIL 2TUR 1  L3006 G1C120JA0019 COIL 2TUR 1  L3007 G0C220JA0019 COIL 2TUR 1  L3006 G1C120JA0019 COIL 2TUR 1  L3007 G0C270JA0019 COIL 2TUR 1  L3006 G1C120JA0019 COIL 2TUR 1  L3007 G0C220JA0019 COIL 2TUR 1  L3006 G1C120JA0019 COIL 2TUR 1  L3007 G0C270JA0019 COIL 2TUR 1  L3006 G1C120JA0019 COIL 2TUR 1  L3007 G0C270JA0019 COIL 2TUR 1  L3006 G1C120JA0019 COIL 2TUR 1  L3007 G0C270JA0019 COIL 2TUR 1  L3007 G0C270JA0019 COIL 2TUR 1  L3006 G1C120JA0019 COIL 2TUR 1  L3007 G0C270JA0019 COIL 2TUR 1  L3007 G0C270JA0019 COIL 2TUR 1  L3006 G1C120JA0019 COIL 2TUR 1  L3007 G0C20JA0019 COIL 2TUR 1  L3007 G0C20JA0019 COIL 2TUR 1  L3008 G0C10JA0019 COIL 3TUR 1  L3009 G0C270JA0019 COIL 3TUR 1  L3000 G1C120JA0019 COIL 3TUR 1  L3001 ERJ3GEYOROV 1/10W 0 1  L33101 ERJ3G		MAZ4091NHF		1	
C1511					
C1511	DP7501	A2BD00000168	DISPLAY TUBE	1	
C1512   B3NAA0000117   IC				1	
C1512   B3NAA0000117   IC	IC1511	B3NAA0000117	IC	1	
IC2001		<del> </del>	IC	1	
IC2501   CIAB00001767   IC			-	+	
C3001   C1AB00002083   IC				+	
103701				+ -	
IC3902   C1AB00001935   IC		ł		+	
104501				+	
IC4801				+	
IC4802   COABBB000228   IC			<del> </del>	+	
IC4803				+	
IC4804				1	
IC4805	IC4803	C0CBCDC00027	IC	1	
IC4806	IC4804	C1AB00001920	IC	1	
IC6001   C2CBHF000474   IC	IC4805	C0ABBB000119	IC	1	
IC6002	IC4806	C0ABBB000216	IC	1	
ICC501	IC6001	C2CBHF000474	IC	1	
ICC501	IC6002	C0EBH0000453	IC	1	
IC7501		C0CBCDC00052	IC	1	
IC7503				+	
IP6101   K5H1022A0011   IC PROTECTOR				+	
J1 VEEOU97-1 WIRE 1  JK3902 K1U717B00005 JACK,DVD 1 PRIORITY OUT 1  JK3903 K1U718B00003 JACK,DVD 1 JK4801 B3ZAZ0000016 IC 1  K3010 ERJ3GEYOROOV 1/10W 0 1 K3994 ERJ3GEYOROOV 1/10W 0 1 K3906 ERJ6GEYOROOV 1/10W 0 1 K4002 ERJ3GEYOROOV 1/10W 0 1 L3002 GOC271JA0019 COIL 1 L3003 GOC270JA0019 COIL 27UH 1 L3004 GOC680JA0019 COIL 27UH 1 L3004 GOC680JA0019 COIL 12UH 1 L3006 GIC120JA0036 COIL 12UH 1 L3701 GOC220JA0019 COIL 22UH 1 L3702 GOC220JA0019 COIL 22UH 1 L3702 GOC220JA0019 COIL 22UH 1 L3703 GOC20JA0019 COIL 22UH 1 L3704 GOC680JA0019 COIL 22UH 1 L3705 GOC270JA0019 COIL 22UH 1 L3701 GOC220JA0019 COIL 22UH 1 L3702 GOC391JA0019 COIL 22UH 1 L3701 GOC20JA0019 COIL 20UH 1 L4501 GOC1RZJ00004 COIL 1.2UH 1 L4502 GOC391JA0019 COIL 1.0UH 1 L4503 GOC10JA0019 COIL 1.0UH 1 L4503 GOC10JA0019 COIL 1.5UH 1 L4503 GOC160JA0019 COIL 50UH 1 L4503 GOC680JA0019 COIL 50UH 1 L4503 GOC680JA0019 COIL 50UH 1 L4503 GOC680JA0019 COIL 1.0UH 1 L5001 GOC680JA0019 COIL 68UH 1 L6102 GOC1RSJA0019 COIL 1.5UH 1 L63101 ERJ3GEYOROOV 1/10W 0 1 L63102 ERJ3GEYOROOV 1/10W 0 1 L63103 ERJ3GEYOROOV 1/10W 0 1 L63104 ERJ3GEYOROOV 1/10W 0 1 L63105 ERJ3GEYOROOV 1/10W 0 1 L63106 ERJ3GEYOROOV 1/10W 0 1 L63107 ERJ3GEYOROOV 1/10W 0 1 L63108 ERJ3GEYOROOV 1/10W 0 1 L63109 ERJ3GEYOROOV 1/10W 0 1 L63101 ERJ3GEYOROOV 1/10W 0 1 L63102 ERJ3GEYOROOV 1/10W 0 1 L63103 ERJ3GEYOROOV 1/10W 0 1 L63104 ERJ3GEYOROOV 1/10W 0 1 L63105 ERJ3GEYOROOV 1/10W 0 1 L63106 ERJ3GEYOROOV 1/10W 0 1 L63107 ERJ3GEYOROOV 1/10W 0 1 L63108 ERJ3GEYOROOV 1/10W 0 1 L63109 ERJ3GEYOROOV 1/10W 0 1 L63101 ERJ3GEYOROOV 1/10W 0 1 L63103 ERJ3GEYOROOV 1/10W 0 1 L63104 ERJ3GEYOROOV 1/10W 0 1 L63105 ERJ3GEYOROOV 1/10W 0 1 L63107 ERJ3GEY	T	1	-	Ť	
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JK4801   B3ZAZ000016   IC	JK3903	K10718B00003		+	
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K3904         ERJ3GEY0R00V         1/10W 0         1           K3906         ERJ6GEY0R00V         1/8W 0         1           K4002         ERJ3GEY0R00V         1/10W 0         1           K4506         ERJ3GEY0R00V         1/10W 0         1           L3002         GOC271JA0019         COIL         1           L3003         GOC270JA0019         COIL 27UH         1           L3004         GOC680JA0019         COIL 27UH         1           L3005         GOC270JA0019         COIL 27UH         1           L3701         GOC220JA0019         COIL 22UH         1           L3702         GOC220JA0019         COIL 22UH         1           L4701         GOC1R2J00004         COIL 22UH         1           L4501         GOC1R2J00004         COIL 1.2UH         1           L4502         GOC391JA0019         COIL 390UH         1           L4503         GOC10JA0019         COIL 1.5UH         1           L5001         GOC680JA0019         COIL 10UH         1           L5001         GOC680JA0019         COIL 1.5UH         1           LB3101         ERJ3GEY0R00V         1/10W 0         1           LB3102         ERJ3G	084001	B3ZAZ0000016	10	+ -	
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LB3102 ERJ3GEYOROOV 1/10W 0 1  LB3103 ERJ3GEYOROOV 1/10W 0 1  LB3104 ERJ3GEYOROOV 1/10W 0 1  LB3105 ERJ3GEYOROOV 1/10W 0 1  LB3106 ERJ3GEYOROOV 1/10W 0 1  LB3107 ERJ3GEYOROOV 1/10W 0 1  LB3108 ERJ3GEYOROOV 1/10W 0 1  LB3110 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4106 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1			1 /1077 0	+	
LB3103 ERJ3GEYOROOV 1/10W 0 1  LB3104 ERJ3GEYOROOV 1/10W 0 1  LB3105 ERJ3GEYOROOV 1/10W 0 1  LB3106 ERJ3GEYOROOV 1/10W 0 1  LB3107 ERJ3GEYOROOV 1/10W 0 1  LB3108 ERJ3GEYOROOV 1/10W 0 1  LB3110 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4106 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1				<del> </del>	
LB3104 ERJ3GEYOROOV 1/10W 0 1  LB3105 ERJ3GEYOROOV 1/10W 0 1  LB3106 ERJ3GEYOROOV 1/10W 0 1  LB3107 ERJ3GEYOROOV 1/10W 0 1  LB3108 ERJ3GEYOROOV 1/10W 0 1  LB3110 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4106 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1				<del> </del>	
LB3105 ERJ3GEYOROOV 1/10W 0 1  LB3106 ERJ3GEYOROOV 1/10W 0 1  LB3107 ERJ3GEYOROOV 1/10W 0 1  LB3108 ERJ3GEYOROOV 1/10W 0 1  LB3110 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1	LB3103	ERJ3GEY0R00V	1/10W 0	1	
LB3106 ERJ3GEYOROOV 1/10W 0 1  LB3107 ERJ3GEYOROOV 1/10W 0 1  LB3108 ERJ3GEYOROOV 1/10W 0 1  LB3110 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1	LB3104	ERJ3GEY0R00V	1/10W 0	1	
LB3107 ERJ3GEYOROOV 1/10W 0 1  LB3108 ERJ3GEYOROOV 1/10W 0 1  LB3110 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1	LB3105	ERJ3GEY0R00V	1/10W 0	1	
LB3108 ERJ3GEYOROOV 1/10W 0 1  LB3110 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1	LB3106	ERJ3GEY0R00V	1/10W 0	1	
LB3110 ERJ3GEYOROOV 1/10W 0 1  LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1	LB3107	ERJ3GEY0R00V	1/10W 0	1	
LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1	LB3108	ERJ3GEY0R00V	1/10W 0	1	
LB3111 ERJ3GEYOROOV 1/10W 0 1  LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1	LB3110	ERJ3GEY0R00V	1/10W 0	1	
LB4101 ERJ3GEYOROOV 1/10W 0 1  LB4102 ERJ3GEYOROOV 1/10W 0 1  LB4103 ERJ3GEYOROOV 1/10W 0 1  LB4104 ERJ3GEYOROOV 1/10W 0 1  LB4105 ERJ3GEYOROOV 1/10W 0 1  LB4107 ERJ3GEYOROOV 1/10W 0 1	LB3111	ERJ3GEY0R00V		1	
LB4102 ERJ3GEY0R00V 1/10W 0 1  LB4103 ERJ3GEY0R00V 1/10W 0 1  LB4104 ERJ3GEY0R00V 1/10W 0 1  LB4105 ERJ3GEY0R00V 1/10W 0 1  LB4107 ERJ3GEY0R00V 1/10W 0 1	LB4101			1	
LB4103 ERJ3GEY0R00V 1/10W 0 1  LB4104 ERJ3GEY0R00V 1/10W 0 1  LB4105 ERJ3GEY0R00V 1/10W 0 1  LB4107 ERJ3GEY0R00V 1/10W 0 1		1		+	
LB4104 ERJ3GEY0R00V 1/10W 0 1  LB4105 ERJ3GEY0R00V 1/10W 0 1  LB4107 ERJ3GEY0R00V 1/10W 0 1				+ .	
LB4105 ERJ3GEY0R00V 1/10W 0 1  LB4107 ERJ3GEY0R00V 1/10W 0 1				+	
LB4107 ERJ3GEY0R00V 1/10W 0 1				+	
				+	
P1531 K1KA02A00375 CONNECTOR(2P) 1	TD#TO /	ERU SGETURUUV	1/10W U	1	
PIDDI KIKAUZAUUS/D CONNECTOR(ZP) I	D1 E 2 1	V1V300300355	CONNECTOR ( 27 )	-	
	LT23T	LTKAU2AU0375	CONNECTOR (2P)	1 1	<u> </u>

Ref. No.         Path No.         Path Name & Description         Pos Remarks Pescription           P2501         KIMMOTADO019         CONNECTOR(PP)         1           P2501         KIMMOSA00022         CONNECTOR(PP)         1           P3001         KIMBOSA00322         CONNECTOR(PP)         1           P3902         KIMBISAA0032         CONNECTOR(PP)         1           P4001         KIMBOSA00035         CONNECTOR(PP)         1           P6001         KIMBOSA00032         CONNECTOR(PP)         1           P6001         KIMBISAA0032         CONNECTOR(PP)         1           P6003         KIMBISAA0032         CONNECTOR(PP)         1           P6001         KIMBISABOUS         CONNECTOR(PP)         1           P6003         KIMBISABOUS         CONNECTOR(PP)         1           P6001         KIMBISABOUS         CONNECTOR(PP)         1           P5001         PRESJOSANDUTT         TRANSISTOR         1           Q1501         PRESJOSANDUTT         TRANSISTOR         1           Q3901         28D1819AOL         TRANSISTOR         1           Q3901         28D1819AOL         TRANSISTOR         1           Q4001         28D1819AOL         TRANSI					
PS571	Ref. No.	Part No.		Pcs	Remarks
P3001	P2501	K1MN07A00019	CONNECTOR (7P)	1	
P3901	P2571	K1KA08A00355	CONNECTOR (8P)	1	
P3902	P3001	K1MN09A00022	CONNECTOR (9P)	1	
P4001		<b>†</b>	<del> </del>		
P4002				-	
P6001		+	<b>+</b>	1	
P6002   KIKB19A0032   CONNECTOR(19P)   1		1			
P6003   KIKB19A0032   CONNECTOR(19P)   1					
PS6001   KIKB12B00047   CONNECTOR(12P)   1					
Q1501 PNB2303MO1VT TRANSISTOR 1	10003	RIREFIE	COMMETON (191)	_	
Q1501 PNB2303MO1VT TRANSISTOR 1	PS6001	K1KB12B00047	CONNECTOR(12P)	1	
Q1501 PNB2303M01VT TRANSISTOR 1					
Q3001 2SD1819A0L TRANSISTOR 1 Q3003 B1AAGD00016 TRANSISTOR 1 Q3901 2SD1819A0L TRANSISTOR 1 Q3901 2SD1819A0L TRANSISTOR 1 Q3902 2SB1218A0L TRANSISTOR 1 Q4001 2SD114900L TRANSISTOR 1 Q4002 2SD1819A0L TRANSISTOR 1 Q4002 2SD1819A0L TRANSISTOR 1 Q4084 2SD0710A0L TRANSISTOR 1 Q4084 2SD0710A0L TRANSISTOR 1 Q4501 2SD0710A0L TRANSISTOR 1 Q4501 2SD0710A0L TRANSISTOR 1 Q4502 B1AAGD00016 TRANSISTOR 1 Q4502 B1AAGD00016 TRANSISTOR 1 Q4803 2SD1819A0L TRANSISTOR 1 Q4804 2SD1819A0L TRANSISTOR 1 Q4804 2SD1819A0L TRANSISTOR 1 Q4803 2SD1819A0L TRANSISTOR 1 Q4804 2SD1819A0L TRANSISTOR 1 Q4804 2SD1819A0L TRANSISTOR 1 Q4805 TRANSISTOR 1 Q4806 TRANSISTOR 1 Q4807 UNRS11100L TRANSISTOR 1 Q4808 TRANSISTOR 1 Q4809 TRANSISTOR 1 Q4800 TRANSISTOR 1 Q4801 UNRS11100L TRANSISTOR 1 Q4801 UNRS11100L TRANSISTOR 1 Q4802 UNRS11300L TRANSISTOR 1 Q4802 UNRS11300L TRANSISTOR 1 Q4803 UNRS21600L TRANSISTOR 1 Q4804 TRANSISTOR 1 Q4806 UNRS1100L TRANSISTOR 1 Q4801 UNRS1100L TRANSISTOR 1 Q4804 UNRS1100L TRANSISTOR 1 Q4806 UNRS1100L TRANSISTOR 1 Q4850 UNRS1100L TRANSISTOR 1 Q4850 UNRS1100L TRANSISTOR 1 Q4860 UNRS1100L TRANSISTOR 1 Q48610 UNRS11100L TRANSISTOR 1 Q48610 UNRS1100L TRANSISTOR	Q1501	PNB2303M01VT	TRANSISTOR	1	
Q3003 B1AAGD00016 TRANSISTOR 1 Q3004 2SD1819A0L TRANSISTOR 1 Q3902 2SD1218A0L TRANSISTOR 1 Q3902 2SD1218A0L TRANSISTOR 1 Q4001 2SD1149OUL TRANSISTOR 1 Q4002 2SD1819A0L TRANSISTOR 1 Q4002 2SD1819A0L TRANSISTOR 1 Q4081 2SD0602ARL TRANSISTOR 1 Q4081 2SD0710A0L TRANSISTOR 1 Q4081 2SD0710A0L TRANSISTOR 1 Q4501 2SD1149OUL TRANSISTOR 1 Q4501 2SD1819A0L TRANSISTOR 1 Q4501 2SD1819A0L TRANSISTOR 1 Q4502 B1AAGD00016 TRANSISTOR 1 Q4801 2SD1819A0L TRANSISTOR 1 Q4802 2SD1819A0L TRANSISTOR 1 Q4804 2SD1819A0L TRANSISTOR 1 Q4804 2SD1819A0L TRANSISTOR 1 Q4804 2SD1819A0L TRANSISTOR 1 Q4804 Q5D1819A0L TRANSISTOR 1 Q4805 UNR521100L TRANSISTOR 1 Q4806 UNR521300L TRANSISTOR 1 Q4806 UNR521600L TRANSISTOR 1 Q48502 UNR521600L TRANSISTOR 1 Q48401 UNR521600L TRANSISTOR 1 Q48401 UNR521600L TRANSISTOR 1 Q48401 UNR521600L TRANSISTOR 1 Q48401 UNR521600L TRANSISTOR 1 Q48400 UNR521600L TRANSISTOR 1 Q48400 UNR521600L TRANSISTOR 1 Q48400 UNR521600L TRANSISTOR 1 Q48400 UNR521100L TRANSISTOR 1 Q48400 UNR521100L TRANSISTOR 1 Q48400 UNR521100L TRANSISTOR 1 Q48502 UNR521300L TRANSISTOR 1 Q48616 UNR521300L TRANSISTOR 1 Q48616 UNR521400L TRANSISTOR 1 Q48616 UNR521400L TRANSISTOR 1 Q48616 UNR521400L TRANSISTOR 1 Q48616 UNR521400L TRANSISTOR 1 Q48617 UNR521100L TRANSISTOR 1 Q48618 UNR521100L TRANSISTOR 1 Q48619 UNR521100L TRANSISTOR 1 Q48610 UNR52100L TRANSISTOR 1	Q1502	PNB2303M01VT	TRANSISTOR	1	
Q3004	Q3001	2SD1819A0L	TRANSISTOR	1	
Q3901   2SD1819A0L   TRANSISTOR   1	Q3003	B1AAGD000016	TRANSISTOR	1	
Q3902         28B1218A0L         TRANSISTOR         1           Q4001         28D11490L         TRANSISTOR         1           Q4002         28D1819A0L         TRANSISTOR         1           Q4081         28D0602ARL         TRANSISTOR         1           Q4501         28D0710A0L         TRANSISTOR         1           Q4502         B1AAGD000016         TRANSISTOR         1           Q4801         28D1819A0L         TRANSISTOR         1           Q4802         28D1819A0L         TRANSISTOR         1           Q4803         28D1819A0L         TRANSISTOR         1           Q4804         28D1819A0L         TRANSISTOR         1           Q7501         B1ABGC000011         TRANSISTOR         1           Q7501         B1ABGC000011         TRANSISTOR         1           QR4502         UNR521100L         TRANSISTOR         1           QR4501         UNR521100L         TRANSISTOR         1           QR4502         UNR521600L         TRANSISTOR         1           QR4801         UNR521600L         TRANSISTOR         1           QR4801         UNR521100L         TRANSISTOR         1           QR4803	Q3004	2SD1819A0L	TRANSISTOR	1	
Q4001         2SD114900L         TRANSISTOR         1           Q4002         2SD1819A0L         TRANSISTOR         1           Q4081         2SD0602AL         TRANSISTOR         1           Q4501         2SB0710A0L         TRANSISTOR         1           Q4501         2SD80710A0L         TRANSISTOR         1           Q4502         2SD1819A0L         TRANSISTOR         1           Q4803         2SD1819A0L         TRANSISTOR         1           Q4804         2SD1819A0L         TRANSISTOR         1           Q4804         2SD1819A0L         TRANSISTOR         1           Q7501         BABGC000011         TRANSISTOR         1           Q7501         BABGC000011         TRANSISTOR         1           QR4022         UNR521100L         TRANSISTOR         1           QR4082         UNR521300L         TRANSISTOR         1           QR4501         UNR52160OL         TRANSISTOR         1           QR4503         UNR52160OL         TRANSISTOR         1           QR4504         UNR52160OL         TRANSISTOR         1           QR4803         UNR521100L         TRANSISTOR         1           QR4801         UN		<b>†</b>	+		
Q4002         25D1819AOL         TRANSISTOR         1           Q4081         25D602ARL         TRANSISTOR         1           Q4084         25B0710AOL         TRANSISTOR         1           Q4501         25B0710AOL         TRANSISTOR         1           Q4502         B1AAGD000016         TRANSISTOR         1           Q4801         25D1819AOL         TRANSISTOR         1           Q4803         25D1819AOL         TRANSISTOR         1           Q4804         25D1819AOL         TRANSISTOR         1           Q7501         B1ABGC000011         TRANSISTOR         1           Q7501         B1ABGC000011         TRANSISTOR         1           Q84002         UNR521100L         TRANSISTOR         1           Q84501         UNR52130OL         TRANSISTOR         1           Q84502         UNR52130OL         TRANSISTOR         1           Q84503         UNR52160OL         TRANSISTOR         1           Q84801         UNR52160OL         TRANSISTOR         1           Q84802         UNR52160OL         TRANSISTOR         1           Q84803         UNR52110OL         TRANSISTOR         1           Q84801 <t< td=""><td>-</td><td></td><td><del> </del></td><td></td><td></td></t<>	-		<del> </del>		
Q4081         2SD0602ARL         TRANSISTOR         1           Q4084         2SB0710AOL         TRANSISTOR         1           Q4501         2SB0710AOL         TRANSISTOR         1           Q4502         BLAAGDO0016         TRANSISTOR         1           Q4801         2SD1819AOL         TRANSISTOR         1           Q4804         2SD1819AOL         TRANSISTOR         1           Q7501         BLABGC000011         TRANSISTOR         1           Q7501         BLABGC000011         TRANSISTOR         1           Q7501         UNR51110OL         TRANSISTOR         1           Q7501         UNR52130OL         TRANSISTOR         1           Q74082         UNR52130OL         TRANSISTOR         1           Q74502         UNR52110OL         TRANSISTOR         1           Q74502         UNR52110OL         TRANSISTOR         1           Q74504         UNR52160OL         TRANSISTOR         1           Q74802         UNR51110OL         TRANSISTOR         1           Q74801         UNR51110OL         TRANSISTOR         1           Q74802         UNR51130OL         TRANSISTOR         1           Q74803 <t< td=""><td>-</td><td></td><td></td><td></td><td></td></t<>	-				
Q4084         Z8B0710A0L         TRANSISTOR         1           Q4501         Z8B0710A0L         TRANSISTOR         1           Q4502         B1AAGD000016         TRANSISTOR         1           Q4801         ZSD1819A0L         TRANSISTOR         1           Q4803         ZSD1819A0L         TRANSISTOR         1           Q4804         ZSD1819A0L         TRANSISTOR         1           Q7501         B1ABGC000011         TRANSISTOR         1           Q7501         B1ABGC000011         TRANSISTOR         1           QR4002         UNR511100L         TRANSISTOR         1           QR4082         UNR521300L         TRANSISTOR         1           QR4502         UNR521100L         TRANSISTOR         1           QR4503         UNR521600L         TRANSISTOR         1           QR4504         UNR521600L         TRANSISTOR         1           QR4503         UNR521600L         TRANSISTOR         1           QR4801         UNR521600L         TRANSISTOR         1           QR4802         UNR52100L         TRANSISTOR         1           QR4803         UNR52100L         TRANSISTOR         1           QR4803         <					
Q4501         ZSB0710AOL         TRANSISTOR         1           Q4502         BlAAGD000016         TRANSISTOR         1           Q4801         2SD1819AOL         TRANSISTOR         1           Q4803         2SD1819AOL         TRANSISTOR         1           Q4804         2SD1819AOL         TRANSISTOR         1           Q4804         2SD1819AOL         TRANSISTOR         1           Q7501         BLABGC000011         TRANSISTOR         1           QR4001         UNR511100L         TRANSISTOR         1           QR4501         UNR52130OL         TRANSISTOR         1           QR4501         UNR52130OL         TRANSISTOR         1           QR4503         UNR5210OL         TRANSISTOR         1           QR4504         UNR52160OL         TRANSISTOR         1           QR4501         UNR52160OL         TRANSISTOR         1           QR4801         UNR52110OL         TRANSISTOR         1           QR4803         UNR52110OL         TRANSISTOR         1           QR4804         UNR52110OL         TRANSISTOR         1           QR4807         UNR51130OL         TRANSISTOR         1           QR4801         <					
Q4502         B1AAGD000016         TRANSISTOR         1           Q4801         2SD1819AOL         TRANSISTOR         1           Q4802         2SD1819AOL         TRANSISTOR         1           Q4804         2SD1819AOL         TRANSISTOR         1           Q4804         2SD1819AOL         TRANSISTOR         1           Q7501         B1ABGC000011         TRANSISTOR         1           QR4001         UNRS1110OL         TRANSISTOR         1           QR4502         UNRS2130OL         TRANSISTOR         1           QR4501         UNRS2110OL         TRANSISTOR         1           QR4502         UNRS2110OL         TRANSISTOR         1           QR4503         UNRS2160OL         TRANSISTOR         1           QR4504         UNRS2160OL         TRANSISTOR         1           QR4801         UNRS2110OL         TRANSISTOR         1           QR4802         UNRS2110OL         TRANSISTOR         1           QR4803         UNRS2110OL         TRANSISTOR         1           QR4801         UNRS2130OL         TRANSISTOR         1           QR4816         UNRS2130OL         TRANSISTOR         1           QR4816					
Q4801         25D1819AOL         TRANSISTOR         1           Q4802         25D1819AOL         TRANSISTOR         1           Q4803         25D1819AOL         TRANSISTOR         1           Q7501         B1ABGCO0011         TRANSISTOR         1           QR4001         UNR51110OL         TRANSISTOR         1           QR402         UNR52110OL         TRANSISTOR         1           QR4501         UNR52130OL         TRANSISTOR         1           QR4502         UNR52130OL         TRANSISTOR         1           QR4503         UNR5216OOL         TRANSISTOR         1           QR4504         UNR5216OOL         TRANSISTOR         1           QR4801         UNR5216OOL         TRANSISTOR         1           QR4802         UNR5216OOL         TRANSISTOR         1           QR4803         UNR52110OL         TRANSISTOR         1           QR4804         UNR52110OL         TRANSISTOR         1           QR4804         UNR52130OL         TRANSISTOR         1           QR4801         UNR5130OL         TRANSISTOR         1           QR4816         UNR5210OL         TRANSISTOR         1           QR7502 <td< td=""><td>-</td><td>1</td><td>+</td><td></td><td></td></td<>	-	1	+		
Q4802         25D1819A0L         TRANSISTOR         1           Q4803         25D1819A0L         TRANSISTOR         1           Q4804         25D1819A0L         TRANSISTOR         1           Q7501         BLABGC000011         TRANSISTOR         1           QR4001         UNR511100L         TRANSISTOR         1           QR4001         UNR521300L         TRANSISTOR         1           QR4501         UNR521300L         TRANSISTOR         1           QR4501         UNR521300L         TRANSISTOR         1           QR4503         UNR521600L         TRANSISTOR         1           QR4504         UNR521600L         TRANSISTOR         1           QR4801         UNR521600L         TRANSISTOR         1           QR4802         UNR521100L         TRANSISTOR         1           QR4803         UNR521100L         TRANSISTOR         1           QR4804         UNR521300L         TRANSISTOR         1           QR4807         UNR511300L         TRANSISTOR         1           QR4816         UNR521100L         TRANSISTOR         1           QR7502         UNR511100L         TRANSISTOR         1           R1501		†	+		
Q4803         ZSD1819AOL         TRANSISTOR         1           Q4804         ZSD1819AOL         TRANSISTOR         1           Q7501         BLAGCO00011         TRANSISTOR         1           QR4001         UNR51110OL         TRANSISTOR         1           QR4082         UNR52130OL         TRANSISTOR         1           QR4501         UNR52110OL         TRANSISTOR         1           QR4502         UNR52110OL         TRANSISTOR         1           QR4503         UNR52160OL         TRANSISTOR         1           QR4801         UNR52160OL         TRANSISTOR         1           QR4801         UNR52110OL         TRANSISTOR         1           QR4802         UNR52110OL         TRANSISTOR         1           QR4803         UNR52110OL         TRANSISTOR         1           QR4807         UNR51130OL         TRANSISTOR         1           QR4810         UNR52130OL         TRANSISTOR         1           QR7502         UNR51110OL         TRANSISTOR         1           QR7504         UNR52110OL         TRANSISTOR         1           R1501         ERJ3GEYJ273V         1/10W 27K         1           R1501			<del> </del>		
Q4804         2SD1819AOL         TRANSISTOR         1           Q7501         B1ABGC000011         TRANSISTOR         1           QR4001         UNR511100L         TRANSISTOR         1           QR4082         UWR521300L         TRANSISTOR         1           QR4501         UWR521100L         TRANSISTOR         1           QR4502         UWR521300L         TRANSISTOR         1           QR4503         UWR521600L         TRANSISTOR         1           QR4504         UWR521600L         TRANSISTOR         1           QR4801         UWR521600L         TRANSISTOR         1           QR4802         UWR521600L         TRANSISTOR         1           QR4804         UWR521100L         TRANSISTOR         1           QR4804         UWR521100L         TRANSISTOR         1           QR4807         UWR511300L         TRANSISTOR         1           QR4816         UWR521300L         TRANSISTOR         1           QR7502         UWR511100L         TRANSISTOR         1           QR7504         UWR521100L         TRANSISTOR         1           R1501         ERJ3GEYJ273V         1/10W 27K         1           R1502					
Q7501         BlabGC000011         TRANSISTOR         1           QR4001         UNR511100L         TRANSISTOR         1           QR4082         UNR521300L         TRANSISTOR         1           QR4501         UNR521100L         TRANSISTOR         1           QR4502         UNR511300L         TRANSISTOR         1           QR4503         UNR521600L         TRANSISTOR         1           QR4801         UNR521600L         TRANSISTOR         1           QR4801         UNR521600L         TRANSISTOR         1           QR4802         UNR521100L         TRANSISTOR         1           QR4803         UNR521100L         TRANSISTOR         1           QR4804         UNR521300L         TRANSISTOR         1           QR4810         UNR521300L         TRANSISTOR         1           QR4810         UNR521600L         TRANSISTOR         1           QR4810         UNR521100L         TRANSISTOR         1           QR7502         UNR511100L         TRANSISTOR         1           QR7504         UNR521100L         TRANSISTOR         1           R1501         ERJ3GEYJ273V         1/10W 27K         1           R1512					
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QR4082         UNR521300L         TRANSISTOR         1           QR4501         UNR521100L         TRANSISTOR         1           QR4502         UNR511300L         TRANSISTOR         1           QR4503         UNR521600L         TRANSISTOR         1           QR4504         UNR521600L         TRANSISTOR         1           QR4801         UNR521600L         TRANSISTOR         1           QR4802         UNR521600L         TRANSISTOR         1           QR4803         UNR521100L         TRANSISTOR         1           QR4804         UNR521100L         TRANSISTOR         1           QR4810         UNR521300L         TRANSISTOR         1           QR4816         UNR521300L         TRANSISTOR         1           QR4816         UNR521600L         TRANSISTOR         1           QR7502         UNR51100L         TRANSISTOR         1           QR7504         UNR521100L         TRANSISTOR         1           R1501         ERJ3GEYJ273V         1/10W 27K         1           R1502         ERJ3GEYJ273V         1/10W 27K         1           R1513         ERJGEYJ273V         1/10W 27K         1           R2514					
QR4501         UNR521100L         TRANSISTOR         1           QR4502         UNR511300L         TRANSISTOR         1           QR4503         UNR521600L         TRANSISTOR         1           QR4504         UNR521600L         TRANSISTOR         1           QR4801         UNR521600L         TRANSISTOR         1           QR4802         UNR521100L         TRANSISTOR         1           QR4803         UNR521100L         TRANSISTOR         1           QR4804         UNR521100L         TRANSISTOR         1           QR4810         UNR521300L         TRANSISTOR         1           QR4816         UNR521400L         TRANSISTOR         1           QR7502         UNR511100L         TRANSISTOR         1           QR7504         UNR521100L         TRANSISTOR         1           R1501         ERJ3GEYJ273V         1/10W 27K         1           R1502         ERJ3GEYJ273V         1/10W 27K         1           R1511         ERJ3GEYJ273V         1/10W 27K         1           R1512         ERJ3GEYJ273V         1/10W 27K         1           R1513         ERJ6GEYJ121V         1/8W 120         1           R2001	QR4001	UNR511100L	TRANSISTOR	1	
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R2515 ERJ3GEYJ221V 1/10W 220 1 R2516 ERJ3GEYJ221V 1/10W 220 1 R2520 ERJ3GEYJ183V 1/10W 18K 1 R2521 ERJ3GEYJ102V 1/10W 1K 1 R2551 ERJ3GEYJ103V 1/10W 10K 1 R2552 ERJ3GEYJ103V 1/10W 10K 1 R2561 ERJ3GEYJ102V 1/10W 1K 1 R2562 ERJ3GEYJ102V 1/10W 1K 1 R2563 ERJ3GEYJ102V 1/10W 1K 1 R2564 ERJ3GEYJ102V 1/10W 1K 1 R2565 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1			<del> </del>		
R2516 ERJ3GEYJ221V 1/10W 220 1 R2520 ERJ3GEYJ183V 1/10W 18K 1 R2521 ERJ3GEYJ102V 1/10W 1K 1 R2551 ERJ3GEYJ103V 1/10W 10K 1 R2552 ERJ3GEYJ103V 1/10W 10K 1 R2561 ERJ3GEYJ102V 1/10W 1K 1 R2562 ERJ3GEYJ102V 1/10W 1K 1 R2563 ERJ3GEYJ102V 1/10W 1K 1 R2564 ERJ3GEYJ101V 1/10W 1K 1 R2565 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1					
R2520 ERJ3GEYJ183V 1/10W 18K 1 R2521 ERJ3GEYJ102V 1/10W 1K 1 R2551 ERJ3GEYJ103V 1/10W 10K 1 R2552 ERJ3GEYJ103V 1/10W 10K 1 R2561 ERJ3GEYJ102V 1/10W 1K 1 R2562 ERJ3GEYJ473V 1/10W 47K 1 R2563 ERJ3GEYJ102V 1/10W 1K 1 R2564 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1		•	<del> </del>	-	
R2521 ERJ3GEYJ102V 1/10W 1K 1 R2551 ERJ3GEYJ103V 1/10W 10K 1 R2552 ERJ3GEYJ103V 1/10W 10K 1 R2561 ERJ3GEYJ102V 1/10W 1K 1 R2562 ERJ3GEYJ473V 1/10W 47K 1 R2563 ERJ3GEYJ102V 1/10W 1K 1 R2564 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1			1	-	
R2551 ERJ3GEYJ103V 1/10W 10K 1 R2552 ERJ3GEYJ103V 1/10W 10K 1 R2561 ERJ3GEYJ102V 1/10W 1K 1 R2562 ERJ3GEYJ473V 1/10W 47K 1 R2563 ERJ3GEYJ102V 1/10W 1K 1 R2564 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1			1		
R2552 ERJ3GEYJ103V 1/10W 10K 1 R2561 ERJ3GEYJ102V 1/10W 1K 1 R2562 ERJ3GEYJ473V 1/10W 47K 1 R2563 ERJ3GEYJ102V 1/10W 1K 1 R2564 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1					
R2561 ERJ3GEYJ102V 1/10W 1K 1 R2562 ERJ3GEYJ473V 1/10W 47K 1 R2563 ERJ3GEYJ102V 1/10W 1K 1 R2564 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1					
R2562 ERJ3GEYJ473V 1/10W 47K 1 R2563 ERJ3GEYJ102V 1/10W 1K 1 R2564 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1			†		
R2564 ERJ3GEYJ101V 1/10W 100 1 R2565 ERJ3GEYJ101V 1/10W 100 1		<b>†</b>		1	
R2565 ERJ3GEYJ101V 1/10W 100 1	R2563	ERJ3GEYJ102V	1/10W 1K	1	
	R2564	ERJ3GEYJ101V	1/10W 100	1	
R3001   ERJ3GEYJ152V   1/10W 1.5K   1	R2565	ERJ3GEYJ101V	1/10W 100	1	
	R3001	ERJ3GEYJ152V	1/10W 1.5K	1	

Ref. No.	Part No.	Part Name &	Pcs	Remarks
		Description	$\perp$	
R3002	ERJ3GEYJ622V	1/10W 6.2K	1	
R3003	ERDS2TJ471T	1/4W 470	1	
R3009	ERJ3GEYJ153V	1/10W 15K	1 1	
R3013 R3014	ERJ3GEYJ103V	1/10W 10K	1	
R3014 R3017	ERJ3GEYJ102V ERJ3GEYJ102V	1/10W 1K 1/10W 1K	1 1	
R3021	ERJ3GEYJ222V	1/10W 2.2K	1	
R3022	ERJ3GEYJ332V	1/10W 3.3K	1	
R3023	ERJ3GEYJ152V	1/10W 1.5K	1	
R3030	ERJ3GEYJ685V	1/10W 6.8M	1	
R3031	ERJ3GEYJ331V	1/10W 330	1	
R3032	ERJ3GEYJ392V	1/10W 3.9K	1	
R3035	ERJ3GEYJ222V	1/10W 2.2K	1	
R3046	ERJ3GEYJ103V	1/10W 10K	1	
R3047	ERJ3GEYJ103V	1/10W 10K	1 1	
R3701	ERJ3RBD104V	1/16W 100K	1	
R3702 R3703	ERJ3RBD153V ERJ3GEYJ221V	1/16W 15K 1/10W 220	1	
R3703	ERJ3GEYJ221V	1/10W 220	1	
R3707	ERJ3GEYJ105V	1/10W 1M	1	
R3710	ERJ3GEYJ103V	1/10W 10K	1	
R3711	ERJ3GEYJ103V	1/10W 10K	1	
R3907	ERJ3GEYF750V	1/10W 75	1	
R3908	ERJ3GEYF750V	1/10W 75	1	
R3909	ERJ3GEYF750V	1/10W 75	1	· · · · · ·
R3912	ERJ3GEYF750V	1/10W 75	1	
R3913	ERJ3GEYJ680V	1/10W 68	1	
R3914	ERJ3GEYF750V	1/10W 75	1	
R3915	ERJ3GEYF750V	1/10W 75	1 1	
R3922	ERJ3GEYJ912V	1/10W 9.1K	1 1	
R3924 R3926	ERJ3GEYJ750V ERJ3GEYJ102V	1/10W 75 1/10W 1K	1	
R3928	ERJ3GEYJ750V	1/10W 75	1	
R3929	ERJ3GEYJ750V	1/10W 75	1	
R3932	ERJ3GEYJ561V	1/10W 560	1	
R3933	ERJ3GEYJ561V	1/10W 560	1	
R3936	ERJ3GEYJ102V	1/10W 1K	1	
R3937	ERJ3GEYJ471V	1/10W 470	1	
R3938	ERJ3GEYJ471V	1/10W 470	1	
R3939	ERJ3GEYJ471V	1/10W 470	1	
R3940	ERJ3GEYJ471V	1/10W 470	1 1	
R4001	ERJ3GEYJ102V	1/10W 1K	1	
R4003 R4004	ERJ3GEYJ153V ERJ3GEYJ271V	1/10W 15K 1/10W 270	1	
R4005	ERJ3GEYJ102V	1/10W 1K	1	
R4006	ERJ3GEYJ153V	1/10W 15K	1	
R4007	ERJ3GEYJ103V	1/10W 10K	1	
R4008	ERJ3GEYJ334V	1/10W 330K	1	
R4009	ERJ3GEY0R00V	1/10W 0	1	
R4011	ERJ3GEYJ153V	1/10W 15K	1	
R4012	ERJ3GEYJ223V	1/10W 22K	1	
R4081	ERJ3GEYJ103V	1/10W 10K	1	
R4082	ERJ3GEYJ332V	1/10W 3.3K	1 1	
R4086 R4087	ERJ3GEYJ222V ERJ3GEYJ222V	1/10W 2.2K 1/10W 2.2K	1	
R4087	ERJ3GEYJ102V	1/10W 2.2K 1/10W 1K	1	
R4501	ERJ3GEYJ563V	1/10W 1K	1	
R4502	ERJ3GEYJ682V	1/10W 6.8K	1	
R4503	ERJ3GEYJ102V	1/10W 1K	1	
R4504	ERDS2TJ821T	1/4W 820	1	
R4505	ERJ3GEYJ682V	1/10W 6.8K	1	
R4506	ERJ3GEYJ102V	1/10W 1K	1	
R4507	ERJ3GEYJ472V	1/10W 4.7K	1	
R4508	ERJ3GEYJ472V	1/10W 4.7K	1 1	
R4509 R4510	ERJ3GEYJ473V	1/10W 47K	1	
R4510 R4511	ERJ3GEYJ622V ERJ3GEYJ473V	1/10W 6.2K 1/10W 47K	1	
R4511	ERJ3GEYJ622V	1/10W 4/K	1 1	
	ERJ3GEYJ472V	1/10W 4.7K	1	
R4513	t	<u> </u>	1	
R4513 R4514	ERJ3GEYJ473V	1/10W 47K	1 - 1	
	ERJ3GEYJ473V ERJ3GEYJ563V	1/10W 4/K 1/10W 56K	1	
R4514			+ . +	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4518	ERJ3GEYJ622V	1/10W 6.2K	1	
R4519	ERJ3GEYJ753V	1/10W 75K	1	
R4520		1/10W 4.7K	1	
R4521	ERJ3GEYJ511V	1/10W 510	1	
R4522 R4523	ERJ3GEYJ511V ERJ3GEYJ103V	1/10W 510 1/10W 10K	1	
R4524	ERJ3GEYJ753V	1/10W 75K	1	
R4525	ERJ3GEYJ102V	1/10W 1K	1	
R4526	ERJ3GEYJ243V	1/10W 24K	1	
R4527	ERJ3GEYJ682V	1/10W 6.8K	1	
R4528	ERJ3GEYJ103V	1/10W 10K	1	
R4529	ERJ3GEYJ681V	1/10W 680	1	
R4534	ERJ3GEYJ124V	1/10W 120K	1	
R4538	ERJ3GEYJ393V	1/10W 39K	1	
R4539 R4540	ERJ3GEYJ102V ERJ3GEYJ102V	1/10W 1K 1/10W 1K	1	
R4801	ERJ3GEYJ681V	1/10W 1R	1	
R4802	ERJ3GEYJ681V	1/10W 680	1	
R4803	ERJ3GEYJ681V	1/10W 680	1	
R4804	ERJ3GEYJ681V	1/10W 680	1	
R4805	ERJ3GEYJ222V	1/10W 2.2K	1	
R4806	ERJ3GEYJ471V	1/10W 470	1	
R4807	ERJ3GEYJ471V	1/10W 470	1	
R4808	ERJ3GEYJ104V	1/10W 100K	1	
R4809	ERJ3GEYJ104V	1/10W 100K	1	
R4810	ERJ3GEYJ102V	1/10W 1K	1	
R4811 R4812	ERJ3GEYJ102V	1/10W 1K	1	
R4813	ERJ3GEYJ102V ERJ3GEYJ102V	1/10W 1K 1/10W 1K	1	
R4814	ERJ3GEYJ473V	1/10W 1R	1	
R4815	ERJ3GEYJ103V	1/10W 10K	1	
R4816	ERJ3GEYJ101V	1/10W 100	1	
R4817	ERJ3GEYJ101V	1/10W 100	1	
R4818	ERJ3GEYJ101V	1/10W 100	1	
R4819	ERJ3GEYJ335V	1/10W 3.3M	1	
R4820	D0HB202ZA002	1/16W 2K	1	
R4821	D0HB391ZA002	1/16W 390	1	
R4822	ERJ3GEYJ821V	1/10W 820	1	
R4823	ERJ3GEYJ821V	1/10W 820	1	
R4824 R4825	ERJ3GEYJ102V ERJ3GEYJ102V	1/10W 1K 1/10W 1K	1	
R4826	D0HB123ZA002	1/16W 12K	1	
R4827	D0HB123ZA002	1/16W 12K	1	
R4828	ERJ3GEY0R00V	1/10W 0	1	
R4829	D0HB123ZA002	1/16W 12K	1	
R4830	D0HB123ZA002	1/16W 12K	1	
R4831	ERJ3GEYJ821V	1/10W 820	1	
R4834	ERJ3GEYJ102V	1/10W 1K	1	
R4835	ERJ3GEYJ102V	1/10W 1K	1	
R4836	ERJ3GEY0R00V	1/10W 0 1/10W 0	1	
R4837 R4838	ERJ3GEY0R00V ERJ3GEYJ821V	1/10W 820	1	
R4839	D0HB103ZA002	1/10W 10K	1	
R4840	D0HB153ZA002	1/10W 15K	1	
R4841	D0HB561ZA002	1/10W 560	1	
R4842	D0HB103ZA002	1/10W 10K	1	
R4843	D0HB561ZA002	1/10W 560	1	
R4844	D0HB153ZA002	1/10W 15K	1	
R4845	ERJ3GEYF103V	1/10W 10K	1	
R4846	ERJ3GEYF103V	1/10W 10K	1	
R4847 R4848	ERJ3GEYJ473V ERJ3GEYJ473V	1/10W 47K 1/10W 47K	1	
R4855	ERJ3GEYJ104V	1/10W 4/K	1	
R4856	ERJ3GEYJ104V	1/10W 100K	1	
R4858	ERJ3GEYJ221V	1/10W 220	1	
R4859	ERJ3GEYJ471V	1/10W 470	1	
R4860	ERJ3GEYJ221V	1/10W 220	1	
R4861	ERJ3GEYJ471V	1/10W 470	1	
R4862	ERJ3GEYJ104V	1/10W 100K	1	
R4863	ERJ3GEYJ104V	1/10W 100K	1	
R6001	ERJ3GEYJ102V	1/10W 1K	1	
R6002 R6004	ERJ3GEYJ102V ERJ3GEYJ103V	1/10W 1K 1/10W 10K	1	
120002	1-W0 2-GE TO TO 2 A	12/1011 101	<u> </u>	

47VP / DMR-EZ	475VP			
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6006	ERJ3GEYJ183V	1/10W 18K	1	
R6008	ERJ3GEYJ222V	1/10W 2.2K	1	
R6012	ERJ3GEYJ221V	1/10W 220	1	
R6013	ERJ3GEYJ221V	1/10W 220	1	
R6017	ERJ3GEYJ222V	1/10W 2.2K	1	
R6019	ERJ3GEYJ103V	1/10W 10K	1	
R6020	ERJ3GEYJ221V	1/10W 220	1	
R6022	ERJ3GEYJ221V	1/10W 220	1	
R6023	ERJ3GEYJ221V	1/10W 220	1	
R6024	ERJ3GEYJ221V	1/10W 220	1	
R6026	ERJ3GEYJ103V	1/10W 10K	1	
R6027	ERJ3GEYJ103V	1/10W 10K	1	
R6028	ERJ3GEYJ103V	1/10W 10K	1	
R6029	ERJ3GEYJ221V		1	
		1/10W 220	1	
R6101	ERJ3GEYJ105V	1/10W 1M		
R6102	ERJ3GEYJ471V	1/10W 470	1	
R6103	ERJ3GEYJ181V	1/10W 180	1	
R6201	ERJ3GEYJ103V	1/10W 10K	1	
R6803	ERJ3GEYJ474V	1/10W 470K	1	
R7501	ERJ3GEYJ101V	1/10W 100	1	
R7502	ERJ3GEYJ104V	1/10W 100K	1	
R7503	ERJ3GEYJ101V	1/10W 100	1	
R7504	ERJ3GEYJ221V	1/10W 220	1	
R7505	ERJ3GEYJ101V	1/10W 100	1	
R7506	ERJ3GEYJ101V	1/10W 100	1	
R7507	ERJ3GEYJ101V	1/10W 100	1	
R7508	ERJ3GEYJ101V	1/10W 100	1	
R7509	ERJ3GEYJ101V	1/10W 100	1	
R7510	ERJ3GEYF823V	1/10W 82K	1	
R7511	ERJ3GEYJ101V	1/10W 100	1	
R7511	ERJ3GEYJ101V	1/10W 100	1	
R7513	ERJ3GEYJ101V	1/10W 100	1	
R7514	ERJ3GEYJ101V	1/10W 100	1	
R7515	ERJ3GEYJ101V	1/10W 100	1	
R7516	ERJ3GEYJ472V	1/10W 4.7K	1	
R7517	ERJ3GEYJ274V	1/10W 270K	1	
R7518	ERJ3GEYJ822V	1/10W 8.2K	1	
R7519	ERJ3GEYJ822V	1/10W 8.2K	1	
R7520	ERJ3GEYJ822V	1/10W 8.2K	1	
R7521	ERJ3GEYJ473V	1/10W 47K	1	
R7522	ERJ3GEYJ103V	1/10W 10K	1	
R7523	ERJ3GEYJ221V	1/10W 220	1	
R7525	ERJ3GEY0R00V	1/10W 0	1	
R7528	ERJ3GEYJ101V	1/10W 100	1	
R7529	ERJ3GEYJ101V	1/10W 100	1	
R7530	ERJ3GEYJ101V	1/10W 100	1	
R7534	ERJ3GEYJ103V	1/10W 10K	1	
R7535	ERJ3GEYJ101V	1/10W 100	1	
R7536	ERJ3GEYJ101V	1/10W 100	1	
R7536	ERJ3GEYJ103V		1	
R7537		1/10W 10K		
	ERJ3GEYJ101V	1/10W 100	1	
R7539	ERJ3GEYJ101V	1/10W 100	1	
R7541	ERDS2TJ151T	1/4W 150	1	
R7542	ERJ3GEYJ101V	1/10W 100	1	
R7543	ERJ3GEYJ103V	1/10W 10K	1	
R7544	ERJ3GEYJ103V	1/10W 10K	1	
R7545	ERJ3GEYJ101V	1/10W 100	1	
R7546	ERJ3GEYJ101V	1/10W 100	1	
R7547	ERJ3GEYF753V	1/10W 75K	1	
R7548	ERJ3GEYJ101V	1/10W 100	1	
R7549	ERJ3GEYJ102V	1/10W 1K	1	
R37017	ERJ3GEYJ223V	1/10W 22K	1	
s1531	K0C111A00006	SWITCH, SAFETY	1	
s1532	K0ZZ00000598	TAB SWITCH, MODE	1	
		,	_	
T4081	G2A472C00003	TRANSFORMER	1	
W701	ERJ3GEY0R00V	1/10W 0	1	
W702	ERJ8GEY0R00V	1/4W 0	1	
W703	ERJ3GEY0R00V	1/10W 0	1	
W704	ERJ3GEY0R00V	1/10W 0	1	

Ref. No	o. Part No.	Part Name &	Pcs	Remarks
W705	ERJ8GEY0R00	Description V 1/4W 0	1	
W706	ERJ8GEY0R00		1	
W707	ERJ8GEY0R00		1	
W708	ERJ8GEY0R00	V 1/4W 0	1	
W709	ERJ8GEY0R00	<del>-  </del>	1	
W710	ERJ8GEY0R00	V 1/4W 0	1	
W711	ERJ8GEY0R00	V 1/4W 0	1	
W712	ERJ6GEY0R00	V 1/8W 0	1	
W713	ERJ8GEY0R00	V 1/4W 0	1	
W714	ERJ8GEY0R00	V 1/4W 0	1	
W715	ERJ8GEY0R00	V 1/4W 0	1	
W716	ERJ3GEY0R00	V 1/10W 0	1	
W717	ERJ8GEY0R00	V 1/4W 0	1	
W718	ERJ8GEY0R00		1	
W719	ERJ8GEY0R00		1	
W720	ERJ6GEY0R00		1	
W721	ERJ8GEY0R00	<del>-  </del>	1	
W722	ERJ8GEY0R00		1	
W723	ERJ8GEY0R00	<del>-  </del>	1	
W724 W725	ERJ8GEY0R00		1	
W725	ERJ8GEY0R00		1	
W727	ERJ8GEY0R00		1	
W728	ERJ6GEY0R00	<del>                                     </del>	1	
W729	ERJ6GEY0R00		1	
W730	ERJ3GEY0R00	<del>                                     </del>	1	
W731	ERJ3GEY0R00		1	
W732	ERJ3GEY0R00	V 1/10W 0	1	
W733	ERJ3GEY0R00	V 1/10W 0	1	
W734	ERJ6GEY0R00	V 1/8W 0	1	
W735	ERJ6GEY0R00	V 1/8W 0	1	
W736	ERJ6GEY0R00	V 1/8W 0	1	
W737	ERJ3GEY0R00	V 1/10W 0	1	
W738	ERJ3GEY0R00	V 1/10W 0	1	
W739	ERJ3GEY0R00	V 1/10W 0	1	
W740	ERJ3GEY0R00		1	
W741	ERJ6GEY0R00		1	
W742	ERJ6GEY0R00		1	
W743	ERJ8GEY0R00		1	
W744	ERJ3GEY0R00	<del>-  </del>	1	
W745	ERJ6GEY0R00		1	
W746 W747	ERJ6GEY0R00		1	
W747 W748	ERJ3GEY0R00			
W749	ERJ3GEY0R00		1	
W750	ERJ3GEY0R00		1	
W751	ERJ3GEY0R00		1	
W752	ERJ6GEY0R00		1	
W753	ERJ3GEY0R00		1	
W754	ERJ6GEY0R00		1	
W755	ERJ3GEY0R00	V 1/10W 0	1	
W756	ERJ3GEY0R00	V 1/10W 0	1	
W757	ERJ3GEY0R00	V 1/10W 0	1	
W758	ERJ6GEY0R00	V 1/8W 0	1	
W759	ERJ3GEY0R00	V 1/10W 0	1	
W760	ERJ6GEY0R00	V 1/8W 0	1	
W761	ERJ6GEY0R00	V 1/8W 0	1	
W762	ERJ3GEY0R00	V 1/10W 0	1	
W763	ERJ3GEY0R00	V 1/10W 0	1	
W764	ERJ3GEY0R00		1	
W765	ERJ3GEY0R00	<u> </u>	1	
W766	ERJ3GEY0R00	<u> </u>	1	
W767	ERJ3GEY0R00		1	
W768	ERJ3GEY0R00		1	
W769	ERJ3GEY0R00		1	
W770	ERJ3GEY0R00		1	
W771 W772	ERJ3GEY0R00	<u> </u>	1	
W772	ERJ3GEY0R00		1	
W774	ERJ3GEY0R00	<u> </u>	1	
W775	ERJ3GEY0R00		1	
W776	ERJ6GEY0R00		1	
W777	ERJ3GEY0R00		1	
		1-,,		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W778	ERJ3GEY0R00V	1/10W 0	1	
X3002	H0D357400067	OSCILLATOR	1	
X6001	H0D120500009	OSCILLATOR CRYSTAL	1	
X7501	H0D100300016	OSCILLATOR		
ZB7501	RMN0870J	HOLDER	1	
ZB7502	RMN0871J	HOLDER	1	
ZJ3001	K9ZZ00001279	EARTH PLATE	1	
	VEP04915A	FRONT(L)P.C.B.	1	(RTL)
C3801	ECJ1VF1H103Z	50V 0.01U	1	
C3802	ECJ1VF1C104Z	16V 0.1U	1	
C7701	ECJ1VF1C104Z	16V 0.1U	1	
IC7701	PNA4618M13VT	IC	1	
	#1 gp1 0 43 0 0 1 F	T1 GT G 11TDT0	-	
JK3802	K1CB104A0017	JACK,S VIDEO	1	
JK4600	K2HA307A0009	JACK,AV IN	+	
LB3301	ERJ3GEY0R00V	1/10W 0	1	
LB3302	ERJ3GEY0R00V	1/10W 0	1	
LB3303	ERJ3GEY0R00V	1/10W 0	1	
LB4301	ERJ3GEY0R00V	1/10W 0	1	
LB4302	ERJ3GEY0R00V	1/10W 0	1	
PP4601	K1KA12B00136	CONNECTOR(12P)	1	
D2901	ED 13CEV 1750V	1/10W 75	1	
R3801 R3802	ERJ3GEYJ750V ERJ3GEYJ750V	1/10W 75 1/10W 75	1	
R3803	ERJ3GEYJ750V	1/10W 75	1	
R3804	ERJ3GEYJ102V	1/10W 1K	1	
R7701	ERJ3GEYJ123V	1/10W 12K	1	
R7702	ERJ3GEYJ153V	1/10W 15K	1	
R7703	ERJ3GEYJ221V	1/10W 220	1	
07701	W7011007W	GUITMOU DOLUMD	-	
S7701 S7702	EVQ11G07K EVQ11G07K	SWITCH, POWER SWITCH, EJECT	1	
202		5.11011,10101	_	
	VEP07B00A	FRONT(R)P.C.B.	1	(RTL)
D27501	B3AAA0000752	DIODE	1	
D27503	B3ACA0000273	DIODE	1	
D27505	B3ADA0000173	DIODE	1	
PP27501	K1KA10B00196	CONNECTOR(10P)	1	
QR27501	UNR521100L	TRANSISTOR	1	
QR27501 QR27503	UNR521100L	TRANSISTOR	1	
QR27505 QR27505	UNR521100L	TRANSISTOR	1	
R27501	ERJ3GEYJ271V	1/10W 270	1	
R27502	ERJ3GEYJ152V	1/10W 1.5K	1	
R27503	ERJ3GEYJ391V	1/10W 390	1	
R27505	ERJ3GEYJ391V	1/10W 390	1	
R27508	ERJ3GEYJ152V	1/10W 1.5K	1	
R27509 R27516	ERJ3GEYJ152V ERJ3GEYJ272V	1/10W 1.5K 1/10W 2.7K	1	
R27510 R27517	ERJ3GEYJ222V	1/10W 2.7K	1	
R27532	ERJ3GEYJ222V	1/10W 2.2K	1	
s27501	EVQ11G07K	SWITCH, OPEN/CLOS	1	
		E		
s27502	EVQ11G07K	SWITCH, CH DOWN	1	
S27503	EVQ11G07K	SWITCH, STOP	1	
S27504	EVQ11G07K	SWITCH, CH UP	1	
S27505	EVQ11G07K	SWITCH, PLAY	1	
S27506	EVQ11G07K	SWITCH, REC	1	
S27507	EVQ11G07K	SWITCH, D2V	1	
S27508	EVQ11G07K	SWITCH, V2D	1	

Description   S27510   EVQ11607K   SWITCH, RESET   1		T	Т		DMR-EZ47VP / DMR-I
S27509	Ref. No.	Part No.	Part Name &	Pcs	Remarks
VEP73144A   SD/DV JACK   1 (RTL)	227500	EVO11007F		1	
VEP73144A   SD/DV JACK   1 (RTL)				_	
P.C.B.	527510	EVQ11G07R	BWITCH, REBEI	+ -	
P.C.B.		VEP73144A	SD/DV JACK	1	(RTL)
LB66801					,
LB66801					
Decision	C66802	F1H1A225A051	10V 22U	1	
DE66802					
	LB66801	J0JHC0000032	COIL	1	
P66802 KIMY20AA0021 CONNECTOR(20P) 1 P66803 KIFY104B0006 CONNECTOR(4P) 1  R66812 ERJ3GEYJ820V 1/10W 82 1 R66815 ERJ3GEYJ820V 1/10W 82 1 R66815 ERJ3GEYJ820V RESISTOR R7	LB66802	J0JHC0000045	COIL	1	
P66802 KIMY20AA0021 CONNECTOR(20P) 1 P66803 KIFY104B0006 CONNECTOR(4P) 1  R66812 ERJ3GEYJ820V 1/10W 82 1 R66815 ERJ3GEYJ820V 1/10W 82 1 R66815 ERJ3GEYJ820V RESISTOR R7					
P66803	P66801	K1NA09E00083	CONNECTOR (9P)	1	
R66812 ERJ3GEYJ820V 1/10W 82 1 R66814 ERJ3GEYJ820V 1/10W 82 1 R66815 ERJ3GEYJ330V 1/10W 33 1  RX66802 EXB38V820JV RESISTOR- RESISTOR  RX66802 EXB38V820JV RESISTOR- RESISTOR  RX66802 EXB38V820JV RESISTOR- RESISTOR  RX66802 EXB38V820JV RESISTOR- RX66800	P66802	K1MY20AA0021	CONNECTOR (20P)	1	
R66814 ERJ3GEYJ820V 1/10W 82 1 R66815 ERJ3GEYJ330V 1/10W 33 1 RX66802 EXB38V820JV RESISTOR- RESISTOR 1    VEP09147A DIGITAL IF P.C.B.	P66803	K1FY104B0006	CONNECTOR (4P)	1	
R66814 ERJ3GEYJ820V 1/10W 82 1 R66815 ERJ3GEYJ330V 1/10W 33 1 RX66802 EXB38V820JV RESISTOR- RESISTOR 1    VEP09147A DIGITAL IF P.C.B.					
R66815 ERJ3GEYJ3330V 1/10W 33 1 1	R66812	ERJ3GEYJ820V	1/10W 82	1	
	R66814	ERJ3GEYJ820V	1/10W 82	1	
	R66815	ERJ3GEYJ330V	1/10W 33	1	
■ VEP09147A DIGITAL IF P.C.B.  C1001 F2AlC1210017 16V 120P 1 C1002 F1H1C105A095 16V 1U 1 C1003 F1H1C104A071 16V 0.1U 1 C1004 F1H1C104A071 16V 0.1U 1 C1005 ECJIVC1H270J 50V 27P 1 C1007 ECJIVB1H103K 50V 0.01U 1 C1009 F2A0J6810007 6.3V 680P 1 C1101 ECQU2A683MLC 0.068U 1 △ C1102 F1B2G1010001 100U 1 △ C1103 F1B2G1010001 100U 1 △ C1104 ECQU2A23MLC 0.022U 1 △ C1105 F1B2G4710001 470U 1 △ C1106 F1B2G4710001 470U 1 △ C1107 F2B2E2210011 250V 220U 1 C1108 F1B2G1020002 1000P 1 △ C1110 F2A1V5600013 35V 56U 1 C1111 F1B3A3920001 3900P 1 C1112 ECJIVC1H331J 50V 330P 1 C1113 ECJIVB1H102K 50V 1000P 1 C1114 ECJIVC1H221J 50V 220P 1 C1115 ECJIVB1H33ZK 50V 3300P 1 C1111 F1B3A3720001 1KV 2700P 1 C1133 ECJIVB1H02K 50V 1000P 1 C1134 ECJIVB1H02K 50V 1000P 1 C1135 ECJIVB1H02K 50V 1000P 1 C1136 F2A1B6810017 25V 680U 1 C1137 F2A1B6810017 25V 680U 1 C1138 ECJIVB1H02K 50V 1000P 1 C1139 F2A1B6810017 25V 680U 1 C1131 F1B3A2720001 1KV 2700P 1 C1132 ECJIVB1H02K 50V 1000P 1 C1133 ECJIVB1H02K 50V 1000P 1 C1134 ECJIVB1H02K 50V 1000P 1 C1135 ECJIVB1H02K 50V 1000P 1 C1136 F2A1B6810017 25V 680U 1 C1200 F2A1B6810017 25V 680U 1 C1201 F2A1B6810017 25V 680U 1 C1203 F2A1C1210012 16V 120P 1 C1301 F2A1A6810017 10V 680U 1 C1351 ECJIVB1C473K 16V 0.047U 1 C1352 F1H1C104A071 16V 0.1U 1 C1351 F1HC105A095 16V 1U 1 C1440 F2A1C5600019 16V 56P 1 C1440 F2A1A6810017 10V 680U 1 C1441 F1HC105A095 16V 1U 1	RX66802	EXB38V820JV	-	1	
P.C.B.			RESISTOR		
P.C.B.					
C1001 F2A1C1210017 16V 120P 1 C1002 F1H1C105A095 16V 1U 1 C1003 F1H1C104A071 16V 0.1U 1 C1004 F1H1C104A071 16V 0.1U 1 C1005 ECJIVC1H270J 50V 27P 1 C1007 ECJIVBHH103K 50V 0.01U 1 C1009 F2A0J6810007 6.3V 680P 1 C1101 ECQU2A63MLC 0.068U 1		VEP09147A	1	1	(RTL)
C1002 F1H1C105A095 16V 1U 1 1   C1003 F1H1C104A071 16V 0.1U 1   C1004 F1H1C104A071 16V 0.1U 1   C1005 ECJIVC1H270J 50V 27P 1   C1007 ECJIVB1H103K 50V 0.01U 1   C1009 F2A0J6810007 6.3V 680P 1   C1101 ECQUZA683MLC 0.068U 1   A   C1102 F1B2G1010001 100U 1   A   C1102 F1B2G1010001 100U 1   A   C1104 ECQUZA223MLC 0.022U 1   A   C1105 F1B2G4710001 470U 1   A   C1106 F1B2G4710001 470U 1   A   C1106 F1B2G4710001 470U 1   A   C1107 F2B2E2210011 250V 220U 1   C1108 F1B2G1020002 1000P 1   A   C1108 F1B2G1020002 1000P 1   A   C1110 F2A1V5600013 35V 56U 1   C1111 F1B3A3920001 3900P 1   C1111 ECJIVC1H331J 50V 330P 1   C1111 ECJIVC1H331J 50V 330P 1   C1113 ECJIVB1H102K 50V 1000P 1   C1114 ECJIVC1H231J 50V 220P 1   C1115 ECJIVB1H332K 50V 3300P 1   C1115 ECJIVB1H332K 50V 3300P 1   C1115 ECJIVB1H332K 50V 1000P 1   C1114 ECJIVC1H231J 50V 220P 1   C1115 ECJIVB1H332K 50V 3300P 1   C1130 F2A1V5600013 35V 56U 1   C1131 F1B3A2720001 1KV 2700P 1   C1132 ECJIVB1H392K 50V 1000P 1   C1134 ECJIVB1H392K 50V 1000P 1   C1134 ECJIVB1H392K 50V 1000P 1   C1135 ECJIVB1H392K 50V 1000P 1   C1136 ECJIVB1H392K 50V 3000P 1   C1200 F2A1E6810017 25V 680U 1   C1201 F2A1E6810017 25V 680U 1   C1203 F2A1C210012 16V 120P 1   C1301 F2A1A6810017 10V 680U 1   C1371 ECJIVB1C473K 16V 0.047U 1   C1372 F1H1C104A071 16V 0.1U 1   C1400 F2A0J6800003 6.3V 68P 1   C1401 F1H1C105A095 16V 1U 1   C1402 F2A1A6810017 10V 680U 1   C1403 ECJIVB1H03K 50V 0.01U 1   C1404 F2A1C5600019 16V 56P 1   C1420 F2A1A6810017 10V 680U 1   C1440 F2A1C5600019 16V 56P 1   C1440 F2A1C5600019 16V 56P 1   C1440 F2A1C5600019 16V 56P 1   C1440 F2A1A6810017 10V 680U 1   C1440 F2A1A6810017 10			F.C.B.		
C1002 F1H1C105A095 16V 1U 1 1   C1003 F1H1C104A071 16V 0.1U 1   C1004 F1H1C104A071 16V 0.1U 1   C1005 ECJIVC1H270J 50V 27P 1   C1007 ECJIVB1H103K 50V 0.01U 1   C1009 F2A0J6810007 6.3V 680P 1   C1101 ECQUZA683MLC 0.068U 1   A   C1102 F1B2G1010001 100U 1   A   C1102 F1B2G1010001 100U 1   A   C1104 ECQUZA223MLC 0.022U 1   A   C1105 F1B2G4710001 470U 1   A   C1106 F1B2G4710001 470U 1   A   C1106 F1B2G4710001 470U 1   A   C1107 F2B2E2210011 250V 220U 1   C1108 F1B2G1020002 1000P 1   A   C1108 F1B2G1020002 1000P 1   A   C1110 F2A1V5600013 35V 56U 1   C1111 F1B3A3920001 3900P 1   C1111 ECJIVC1H331J 50V 330P 1   C1111 ECJIVC1H331J 50V 330P 1   C1113 ECJIVB1H102K 50V 1000P 1   C1114 ECJIVC1H231J 50V 220P 1   C1115 ECJIVB1H332K 50V 3300P 1   C1115 ECJIVB1H332K 50V 3300P 1   C1115 ECJIVB1H332K 50V 1000P 1   C1114 ECJIVC1H231J 50V 220P 1   C1115 ECJIVB1H332K 50V 3300P 1   C1130 F2A1V5600013 35V 56U 1   C1131 F1B3A2720001 1KV 2700P 1   C1132 ECJIVB1H392K 50V 1000P 1   C1134 ECJIVB1H392K 50V 1000P 1   C1134 ECJIVB1H392K 50V 1000P 1   C1135 ECJIVB1H392K 50V 1000P 1   C1136 ECJIVB1H392K 50V 3000P 1   C1200 F2A1E6810017 25V 680U 1   C1201 F2A1E6810017 25V 680U 1   C1203 F2A1C210012 16V 120P 1   C1301 F2A1A6810017 10V 680U 1   C1371 ECJIVB1C473K 16V 0.047U 1   C1372 F1H1C104A071 16V 0.1U 1   C1400 F2A0J6800003 6.3V 68P 1   C1401 F1H1C105A095 16V 1U 1   C1402 F2A1A6810017 10V 680U 1   C1403 ECJIVB1H03K 50V 0.01U 1   C1404 F2A1C5600019 16V 56P 1   C1420 F2A1A6810017 10V 680U 1   C1440 F2A1C5600019 16V 56P 1   C1440 F2A1C5600019 16V 56P 1   C1440 F2A1C5600019 16V 56P 1   C1440 F2A1A6810017 10V 680U 1   C1440 F2A1A6810017 10	C1 001	E271C1210015	16W 120D	-	
C1003 F1H1C104A071 16V 0.1U 1 C1004 F1H1C104A071 16V 0.1U 1 C1005 ECJIVC1H270J 50V 27P 1 C1007 ECJIVB1H103K 50V 0.01U 1 C1009 F2A0J6810007 6.3V 680P 1 C1101 ECQU2A683MLC 0.068U 1				+	
C1004					
C1005 ECJIVC1H270J 50V 27P 1 C1007 ECJIVB1H103K 50V 0.01U 1 C1009 F2A0J6810007 6.3V 680P 1 C1101 ECQU2A683MLC 0.068U 1					
C1007 ECJ1VB1H103K 50V 0.01U 1 C1009 F2A0J6810007 6.3V 680P 1 C1101 ECQU2A683MLC 0.068U 1					
C1009 F2A0J6810007 6.3V 680P 1 C1101 ECQU2A683MLC 0.068U 1		+	<del>                                     </del>		
C1101 ECQU2A683MLC 0.068U 1		+	+		
C1102 F1B2G1010001 100U 1			<del> </del>		Α
C1103 F1B2G1010001 100U 1					
C1104 ECQU2A223MLC 0.022U 1					
C1105 F1B2G4710001 470U 1					
C1106 F1B2G4710001 470U 1					
C1107 F2B2E2210011 250V 220U 1 C1108 F1B2G1020002 1000P 1		<b>+</b>	+	+	+
C1108 F1B2G1020002 1000F 1			<del>                                     </del>		<u> </u>
C1110 F2A1V5600013 35V 56U 1 C1111 F1B3A3920001 3900P 1 C1112 ECJ1VC1H331J 50V 330P 1 C1113 ECJ1VB1H102K 50V 1000P 1 C1114 ECJ1VC1H221J 50V 220P 1 C1115 ECJ1VB1H332K 50V 3300P 1 C1130 F2A1V5600013 35V 56U 1 C1131 F1B3A2720001 1KV 2700P 1 C1132 ECJ1VB1H102K 50V 1000P 1 C1133 ECJ1VC1H331J 50V 330P 1 C1134 ECJ1VB1H392K 50V 3900P 1 C1136 ECJ1VB1H392K 50V 3900P 1 C1200 F2A1E6810017 25V 680U 1 C1201 F2A1E6810017 25V 680U 1 C1201 F2A1E6810017 10V 680U 1 C1330 F2A1A1220012 16V 120P 1 C1301 F2A1A6810017 10V 680U 1 C1371 ECJ1VB1C473K 16V 0.047U 1 C1372 F1H1C104A071 16V 0.1U 1 C1372 F1H1C104A071 16V 0.1U 1 C1400 F2A0J6800003 6.3V 68P 1 C1401 F1H1C105A095 16V 1U 1 C1402 F1H1C105A095 16V 1U 1 C1410 F2A1A6810017 10V 680U 1 C1410 F2A1C5600019 16V 56P 1 C1421 F2A1A6810017 10V 680U 1 C1422 F1H1C105A095 16V 1U 1 C1430 F2A1A1820007 10V 1800U 1 C1410 F2A1C5600019 16V 56P 1 C1421 F2A1A6810017 10V 680U 1 C1421 F2A1A6810017 10V 680U 1 C1431 F2A0J5610005 6.3V 560P 1 C1431 F2A0J5610005 6.3V 560P 1 C1432 F1H1C105A095 16V 1U 1			+	+	Λ.
C1111 F1B3A3920001 3900P 1 C1112 ECJIVC1H331J 50V 330P 1 C1113 ECJIVB1H102K 50V 1000P 1 C1114 ECJIVC1H221J 50V 220P 1 C1115 ECJIVB1H332K 50V 3300P 1 C1130 F2A1V5600013 35V 56U 1 C1131 F1B3A2720001 1KV 2700P 1 C1132 ECJIVB1H102K 50V 1000P 1 C1133 ECJIVC1H331J 50V 330P 1 C1134 ECJIVB1H392K 50V 3900P 1 C1200 F2A1E6810017 25V 680U 1 C1201 F2A1E6810017 25V 680U 1 C1201 F2A1E6810017 10V 680U 1 C1330 F2A1A1220012 10V 1200U 1 C1331 ECJIVB1C473K 16V 0.047U 1 C1352 ECJIVB1C473K 16V 0.047U 1 C13632 F1H1C104A071 16V 0.1U 1 C1371 ECJIVB1C473K 16V 0.047U 1 C1372 F1H1C105A095 16V 1U 1 C1400 F2A1A1820007 10V 1800U 1 C1401 F2A1C6810017 10V 680U 1 C1402 F1H1C105A095 16V 1U 1 C1403 ECJIVB1H103K 50V 0.01U 1 C1404 F2A1C5600019 16V 56P 1 C1420 F2A1A1820007 10V 1800U 1 C1421 F2A1A6810017 10V 680U 1 C1422 F1H1C105A095 16V 1U 1 C1423 F2A1A1820007 10V 1800U 1 C1421 F2A1A6810017 10V 680U 1 C1422 F1H2C105A095 16V 1U 1 C1433 F2A1A1820007 10V 1800U 1 C1431 F2A1A6810017 10V 680U 1 C1431 F2A0J5610005 6.3V 560P 1 C1432 F1H1C105A095 16V 1U 1					<u> </u>
C1112 ECJ1VC1H331J 50V 330P 1 C1113 ECJ1VB1H102K 50V 1000P 1 C1114 ECJ1VC1H221J 50V 220P 1 C1115 ECJ1VB1H332K 50V 3300P 1 C1130 F2A1V5600013 35V 56U 1 C1131 F1B3A2720001 1KV 2700P 1 C1132 ECJ1VB1H102K 50V 1000P 1 C1133 ECJ1VC1H331J 50V 330P 1 C1134 ECJ1VB1H392K 50V 3900P 1 C1200 F2A1E6810017 25V 680U 1 C1201 F2A1E6810017 25V 680U 1 C1203 F2A1C1210012 16V 120P 1 C1300 F2A1A1220012 10V 1200U 1 C1331 ECJ1VB1H37 10V 680U 1 C1351 ECJ1VB1C473K 16V 0.047U 1 C1352 F1H1C104A071 16V 0.1U 1 C1372 F1H1C104A071 16V 0.1U 1 C1372 F1H1C104A071 16V 0.1U 1 C1400 F2A0J6800003 6.3V 68P 1 C1401 F1H1C105A095 16V 1U 1 C1402 F1H1C105A095 16V 1U 1 C1410 F2A1A6810017 10V 680U 1 C1420 F2A1A1820007 10V 1800U 1 C1421 F2A1A6810017 10V 680U 1 C1403 ECJ1VB1H103K 50V 0.01U 1 C1410 F2A1C5600019 16V 56P 1 C1420 F2A1A1820007 10V 1800U 1 C1421 F2A1A6810017 10V 680U 1 C1421 F2A1A6810017 10V 680U 1 C1421 F2A1A6810017 10V 680U 1 C1431 F2A0J5610005 6.3V 560P 1 C1431 F2A0J5610005 6.3V 560P 1 C1432 F1H1C105A095 16V 1U 1					
C1113 ECJ1VB1H102K 50V 1000P 1 C1114 ECJ1VC1H221J 50V 220P 1 C1115 ECJ1VB1H332K 50V 3300P 1 C1130 F2A1V5600013 35V 56U 1 C1131 F1B3A2720001 1KV 2700P 1 C1132 ECJ1VB1H102K 50V 1000P 1 C1133 ECJ1VC1H331J 50V 330P 1 C1134 ECJ1VB1H392K 50V 3900P 1 C1200 F2A1E6810017 25V 680U 1 C1201 F2A1E6810017 25V 680U 1 C1201 F2A1E6810017 10V 680U 1 C1300 F2A1A1220012 16V 120P 1 C1301 F2A1A6810017 10V 680U 1 C1351 ECJ1VB1C473K 16V 0.047U 1 C1352 F1H1C104A071 16V 0.1U 1 C1371 ECJ1VB1C473K 16V 0.047U 1 C1372 F1H1C104A071 16V 0.1U 1 C1400 F2A0J6800003 6.3V 68P 1 C1401 F1H1C105A095 16V 1U 1 C1402 F2A1A1820007 10V 1800U 1 C1410 F2A1A6810017 10V 680U 1 C1401 F2A1C5600019 16V 56P 1 C1420 F2A1A1820007 10V 1800U 1 C1421 F2A1A6810017 10V 680U 1 C1422 F1H2C105A095 6.3V 1200P 1 C1431 F2A1A6810017 10V 680U 1 C1421 F2A1A6810017 10V 680U 1 C1431 F2A0J5610005 6.3V 560P 1 C1432 F1H1C105A095 16V 1U 1		1		_	
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C1432 F1H1C105A095 16V 1U 1					
				_	
	C1433	F2A1A1010072	10V 100U		
C1440 F2A1C5610006 16V 560U 1				_	
C1441 F2A1C1210012 16V 120P 1				+	
C1450 F2A1H2200055 50V 22U 1		+	<del> </del>		

Ref. No.	47VP / DMR-EZ	2475VP			
C7302	Ref. No.	Part No.		Pcs	Remarks
C7304	C7301	F2A0J220A878	6.3V 22P	1	
C7305	C7302	F2A1H4R7B033	50V 4.7U	1	
C7306   F2A1H4R7B033   SOV 4.7U   1   C7310   F2A0A470A824   6.3V 47P   1   C7311   EZA0A470A824   6.3V 47P   1   C7312   F1H1C104A071   16V 0.1U   1   C7313   F2A1C100B099   16V 10P   1   C7313   F2A1C100B099   16V 10P   1   C7314   F2A1H2R2B032   SOV 2.2U   1   C7317   ECJIVB0J105K   6.3V 1U   1   C7317   ECJIVB0J105K   6.3V 1U   1   C7318   ECJIVB0J105K   6.3V 1U   1   C7318   ECJIVB0J105K   6.3V 1U   1   C7319   ECJIVB0J105K   6.3V 1U   1   C7320   F1H1C104A071   16V 0.1U   1   C7321   ECJIVB0J105K   6.3V 1U   1   C7322   F2A1H2R2B032   SOV 2.2U   1   C7823   F2A0J470A824   6.3V 1U   1   C7823   F2A0J470A824   6.3V 47P   1   C7824   F2A0J470A824   6.3V 47P   1   C7825   EZA0J470A824   6.3V 47P   1   C7829   EZA0J470A824   6.3V 47P   1   C7829   EZA0J470A824   6.3V 47P   1   C7829   EZA0J470A824   6.3V 47P   1   C7823   F2A0J470A824   6.3V 47P   1   C7826   EZA0J470A824   6.3V 47P   1   C7828   EZA0J470A824   6.3V 47P   1   C7836   EZA0J470A824   6.3V 1U   1   C78300   F2A1A1010072   T0V 100   1   T0   T0   T0   T0   T0   T0	C7304	F2A0J220A878	6.3V 22P	1	
C7308	C7305	F2A1H4R7B033	50V 4.7U	1	
C7310	C7306	F2A1H4R7B033	50V 4.7U	1	
C7311	C7308	ECJ1VB1C473K	16V 0.047U	1	
C7312 F1H1C104A071 16V 0.1U 1 C7313 F2ALC1008099 16V 10P 1 C7316 ECJ1VB0J105K 6.3V 1U 1 C7317 ECJ1VB0J105K 6.3V 1U 1 C7318 ECJ1VB0J105K 6.3V 1U 1 C7318 ECJ1VB0J105K 6.3V 1U 1 C7319 ECJ1VB0J105K 6.3V 1U 1 C7319 ECJ1VB0J105K 6.3V 1U 1 C7320 F1H1C104A071 16V 0.1U 1 C7321 ECJ1VB0J105K 6.3V 1U 1 C7322 ECJ1VB0J105K 6.3V 1U 1 C7322 ECJ1VB0J105K 10V 1U 1 C7322 ECJ1VB0J105K 10V 1U 1 C7823 ECJ1VB0J105K 10V 1U 1 C7824 ECJ1VB0J105K 10V 1U 1 C7826 ECJ1VB0J105K 10V 1U 1 C7827 ECJ1VB0J105K 10V 1U 1 C7827 F2ALH22B032 50V 2.2U 1 C7826 F2AOJ470A824 6.3V 47P 1 C7827 F2ALH308032 50V 1U 1 C7827 F2ALH308032 50V 1U 1 C7828 ECJ1VBH103K 50V 0.01U 1 C7830 F2AOJ470A824 6.3V 47P 1 C7829 ECJ1VBH0J0SK 50V 0.01U 1 C7830 F2AOJ470A824 6.3V 47P 1 C7828 ECJ1VBH103K 50V 0.01U 1 C7838 ECJ1VBH103K 50V 0.01U 1 C7839 ECJ1VBH103K 50V 0.01U 1 C7830 F2AAJ5H103K 50V 0.01U 1 C31001 F1H1A105A028 10V 1U 1 C31002 F1H1A105A028 10V 1U 1 C31004 ECJ1VB0J105K 6.3V 1U 1 C31005 F2AAJ6100072 10V 10V 1 1 C31006 ECJ1VBH103K 50V 0.01U 1 C31007 ECJ1VBH103K 50V 0.01U 1 C31008 ECJ1VBH103K 50V 0.01U 1 C31009 F1ADJ0106A014 6.3V 10U 1 C31014 F1J0J106A014 6.3V 10U 1 C31015 F1H1A105A028 10V 1U 1 C31016 F2ALH2004071 16V 0.1U 1 C31017 ECJ1VBH103K 50V 0.01U 1 C31018 ECJ1VBH103K 50V 0.01U 1 C31019 F1AAJ65A028 10V 1U 1 C31010 F1H1A105A028 10V 1U 1 C31011 F1H1C104A071 10V 10V 10V 10V 10V 10V 10V 10V 10V 10	C7310	F2A0J470A824	6.3V 47P	1	
C7313	C7311	ECJ1VB1H103K	50V 0.01U	1	
C7314 F2A1H2R2B032 50V 2.2U 1 C7316 ECJ1VB0J105K 6.3V 1U 1 C7318 ECJ1VB0J105K 6.3V 1U 1 C7318 ECJ1VB0J105K 6.3V 1U 1 C7318 ECJ1VB0J105K 6.3V 1U 1 C7319 ECJ1VB0J105K 6.3V 1U 1 C7319 ECJ1VB0J105K 6.3V 1U 1 C7320 F1HC104A071 16V 0.1U 1 C7321 ECJ1VB0J105K 6.3V 1U 1 C7322 F2A1H2R2B032 50V 2.2U 1 C7322 F2A1H2R2B032 50V 2.2U 1 C7802 ECJ1VBA105K 10V 1U 1 C7807 ECJ1VB0J105K 6.3V 1U 1 C7823 F2A0J470A824 6.3V 47P 1 C7824 F2A0J470A824 6.3V 47P 1 C7825 F2A1H2R0B032 50V 1U 1 C7827 F2A1H1R0B032 50V 1U 1 C7829 ECJ1VB1103K 50V 0.01U 1 C7829 ECJ1VB1103K 50V 0.01U 1 C7829 ECJ1VB1103K 50V 0.01U 1 C7831 F1H1C104A071 16V 0.1U 1 C7835 ECJ1VB1H103K 50V 0.01U 1 C7836 ECJ1VB1H103K 50V 0.01U 1 C7838 ECJ1VB1H103K 50V 0.01U 1 C7839 ECJ1VB1H103K 50V 0.01U 1 C7839 ECJ1VB1H103K 50V 0.01U 1 C7839 ECJ1VB1H103K 50V 0.01U 1 C7830 F2ADJ470A824 6.3V 1U 1 C31001 F1H1A105A028 10V 1U 1 C31002 ECJ1VB1H103K 50V 0.01U 1 C31004 ECJ1VB1H03K 50V 0.01U 1 C31007 ECJ1VB1H03K 50V 0.01U 1 C31008 ECJ1VB1H03K 50V 0.01U 1 C31007 ECJ1VB1H03K 50V 0.01U 1 C31008 ECJ1VB1H03K 50V 0.01U 1 C31009 F2ALA1010072 10V 10U 1 C31010 F1H1A105A028 10V 1U 1 C31011 F1H1A105A00000000000000000000000000000000		F1H1C104A071	16V 0.1U	1	
C7316   ECJIVBOJ105K   6.3V 1U   1   1   1   1   1   1   1   1   1	C7313	F2A1C100B099	16V 10P	1	
C7317 ECJ1VB0J105K 6.3V 1U 1 C7318 ECJ1VB0J105K 6.3V 1U 1 C7320 F1H1C104A071 16V 0.1U 1 C7321 ECJ1VB0J105K 6.3V 1U 1 C73221 ECJ1VBJ105K 6.3V 1U 1 C73221 ECJ1VBJ105K 10V 1U 1 C7322 F2A1R22B3032 50V 2.2U 1 C7802 ECJ1VBJ105K 10V 1U 1 C7807 ECJ1VBJ105K 6.3V 1U 1 C7807 ECJ1VBJ105K 10V 1U 1 C7823 F2A0J470A824 6.3V 47P 1 C7824 F2A0J470A824 6.3V 47P 1 C7824 F2A0J470A824 6.3V 47P 1 C7826 F2A0J470A824 6.3V 47P 1 C7827 F2A1H1R0B032 50V 1U 1 C7829 ECJ1VBJ103K 50V 0.01U 1 C7835 ECJ1VBJ103K 50V 0.01U 1 C7836 ECJ1VBJ103K 50V 0.01U 1 C7838 ECJ1VBJ1103K 50V 0.01U 1 C7838 ECJ1VBJ1103K 50V 0.01U 1 C7839 ECJ1VBJ1103K 50V 0.01U 1 C7839 ECJ1VBJ103K 50V 0.01U 1 C331001 F1H1A105A028 10V 1U 1 C31002 F1H1A105A028 10V 1U 1 C31004 ECJ1VBJ1103K 50V 0.01U 1 C31005 F2A1A1010072 10V 100U 1 C31006 ECJ1VBJ1103K 50V 0.01U 1 C31007 ECJ1VBJ1103K 50V 0.01U 1 C31008 ECJ1VBJ1103K 50V 0.01U 1 C31009 FJJ0G106A014 6.3V 1U 1 C31014 FJJ0G106A014 6.3V 1U 1 C31012 F1J0J106A014 6.3V 1U 1 C31014 FJJ0G106A014 6.3V 1U 1 C31015 F2A1C220B10 16V 22P 1 C37108 FJJ0G106A014 6.3V 10U 1 C377112 ECJ1VCJ110J 50V 100P 1 C377114 ECJ1VCJ110J 50V 100P 1 C377114 ECJ1VCJ110J 50V 100P 1 C45006 F2A1E470B030 25V 47U 1 C45006 F	C7314	<b>†</b>	50V 2.2U	1	
C7318		ECJ1VB0J105K		+ +	
C7319		ECJ1VB0J105K		1	
C7320				l 1	
C7321				1	
C7322				<del>                                     </del>	
C7802   ECJIVBIAIOSK   10V   1U				1	
C7807   ECJIVB0J105K   6.3V   1U				1	
C7823				+ +	
C7824 F2A0J470A824 6.3V 47P 1 C7826 F2A0J470A824 6.3V 47P 1 C7827 F2A1HR0B032 50V 1U 1 C7827 F2A1HR0B032 50V 1U 1 C7828 ECJIVB1H103K 50V 0.01U 1 C7830 F2A0J470A824 6.3V 47P 1 C7831 F1H1C104A071 16V 0.1U 1 C7835 ECJIVB1H103K 50V 0.01U 1 C7836 ECJIVB1H103K 50V 0.01U 1 C7837 ECJIVB1H103K 50V 0.01U 1 C7838 ECJIVB1H103K 50V 0.01U 1 C7838 ECJIVB1H103K 50V 0.01U 1 C7839 ECJIVB1H103K 50V 0.01U 1 C7839 ECJIVB1H03K 50V 0.01U 1 C31001 F1H1A105A028 10V 1U 1 C31002 F1H1A105A028 10V 1U 1 C31004 ECJIVB01105K 6.3V 1U 1 C31005 F2A1A1010072 10V 100U 1 C31006 ECJIVB1H103K 50V 0.01U 1 C31007 ECJIVB1H103K 50V 0.01U 1 C31008 ECJIVB1H03K 50V 0.01U 1 C31009 F1J00106A014 6.3V 1U 1 C31010 F1H1A105A028 10V 1U 1 C31011 F1J0J106A014 6.3V 10U 1 C31012 F1J00106A014 6.3V 10U 1 C31014 F1J0J106A014 6.3V 10U 1 C37018 F1J0J106A014 6.3V 10U 1 C37111 ECJIVCH101J 50V 100P 1 C37111 ECJIVCH101J 50V 100P 1 C37111 ECJIVCH101J 50V 100P 1 C45002 F1H1C104A071 16V 0.1U 1 C45003 ECQIH104L13 50V 0.1U 1 C45004 F2A0A471A832 6.3V 470P 1 C45005 F2A1E470B030 25V 47U 1 C45006 F2A1E470B030 25V 47U 1 C45015 F2A1H100B040 50V 10P 1 C45015 F2A1H100B040 50V 10P 1 D1001 B0JCPD000021 D10DE 1 D1101 B0AADM00003 D10DE 1 D1111 MAZ73000BC D10DE 1 D1111 MAZ73000BC D10DE 1 D1111 B0AACK000004 D10DE 1 D1113 B0BACK000004 D10DE 1 D1133 B0BACK000004 D10DE 1 D1131 B0AACK000004 D10DE 1 D1330 B0AJME000025 D10DE 1 D1300 B0JCR000003 D10DE 1 D1300 B0JCR000003 D10DE 1 D1300 B0JCR000003 D10DE 1 D1300 B0JCR000003 D10DE 1				1	
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C7827					
C7829				<del>                                     </del>	
C7830				l 1	
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C7835		<b>†</b>	+	+ +	
C7836 ECJIVB1H103K 50V 0.01U 1 C7838 ECJIVB1H103K 50V 0.01U 1 C7839 ECJIVB1H103K 50V 0.01U 1 C7839 ECJIVB1H103K 50V 0.01U 1 C31001 F1H1A105A02B 10V 1U 1 C31002 F1H1A105A02B 10V 1U 1 C31004 ECJIVB0J105K 6.3V 1U 1 C31005 F2A1A1010072 10V 100U 1 C31006 ECJIVB1H103K 50V 0.01U 1 C31007 ECJIVB1H103K 50V 0.01U 1 C31008 ECJIVB1H103K 50V 0.01U 1 C31009 F1J0J106A014 6.3V 10U 1 C31010 F1H1A105A02B 10V 1U 1 C31011 F1H1A105A02B 10V 1U 1 C31012 F1J0J106A014 6.3V 10U 1 C31014 F170J106A014 6.3V 10U 1 C37012 F2A1C220B110 16V 22P 1 C37108 F1J0J106A014 6.3V 10U 1 C37111 ECJIVC1H101J 50V 100P 1 C37112 ECJIVC1H101J 50V 100P 1 C37114 ECJIVC1H101J 50V 100P 1 C45002 F1H1C104A071 16V 0.1U 1 C45003 ECQV1H104JL3 50V 0.1U 1 C45004 F2A0J471A832 6.3V 470P 1 C45005 F2A1E470B030 25V 47U 1 C45006 F2A1E470B030 25V 47U 1 C45016 F2A1H100B040 50V 10P 1 C45016 F2A1H100B040 50V 10P 1 D1001 B0JCPD000021 DIODE 1 D1002 B0JCPD000021 DIODE 1 D1101 B0BADM000003 DIODE 1 D1111 MAZ7300BC DIODE 1 D1113 B0BCR000008 DIODE 1 D1130 B0AACK000004 DIODE 1 D1131 B0AACK000004 DIODE 1 D1131 MAZ7300BC DIODE 1 D1131 MAZ7300BC DIODE 1 D1131 MAZ7300BC DIODE 1 D1133 B0BADM000003 DIODE 1 D1134 B0AACK000004 DIODE 1 D1135 B0AACK000004 DIODE 1 D1131 MAZ7300BC DIODE 1 D1131 MAZ7300BC DIODE 1 D1131 MAZ7300BC DIODE 1 D1133 B0BADM000003 DIODE 1 D1134 B0AACK000004 DIODE 1 D1135 B0AACK000004 DIODE 1 D1131 MAZ7300BC DIODE 1 D1300 B0JABE000025 DIODE 1		<b>†</b>		+ . +	
C7838				<del>                                     </del>	
C7839				<del>                                     </del>	
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C31002				1	
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C31006 ECJIVB1H103K 50V 0.01U 1 C31007 ECJIVB1H103K 50V 0.01U 1 C31008 ECJIVB0J105K 6.3V 1U 1 C310109 FJJ0J106A014 6.3V 10U 1 C31010 F1H1A105A028 10V 1U 1 C31012 F1J0J106A014 6.3V 10U 1 C31012 F1J0J106A014 6.3V 10U 1 C31014 FJJ0J106A014 6.3V 10U 1 C34001 F1H1C104A071 16V 0.1U 1 C37002 F2A1C220B110 16V 22P 1 C37108 FJJ0J106A014 6.3V 10U 1 C37111 ECJIVC1H101J 50V 100P 1 C37112 ECJIVC1H101J 50V 100P 1 C37114 ECJIVC1H101J 50V 100P 1 C45002 F1H1C104A071 16V 0.1U 1 C45003 ECQV1H104JL3 50V 0.1U 1 C45004 F2A0J471A832 6.3V 470P 1 C45005 F2A1E470B030 25V 47U 1 C45006 F2A1E470B030 25V 47U 1 C45015 F2A1H100B040 50V 10P 1 C45016 F2A1H100B040 50V 10P 1 D1001 B0JCPD000021 DIODE 1 D1002 B0JCPD000021 DIODE 1 D1101 B0EDKT000009 DIODE 1 D1110 B0AADM000003 DIODE 1 D1111 MA273000BC DIODE 1 D1113 B0BC9R000008 DIODE 1 D1113 B0AACK000004 DIODE 1 D1131 MA273000BC DIODE 1 D1131 MA273000BC DIODE 1 D1131 MA273000BC DIODE 1 D1133 B0AACK000004 DIODE 1 D1133 B0BC010A007 DIODE 1 D1133 B0BC010A007 DIODE 1 D1200 B0JCNG000003 DIODE 1				+ +	
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D1101 B0EDKT000009 DIODE 1 D1110 B0AADM000003 DIODE 1 D1111 MAZ73000BC DIODE 1 D1112 B0AACK000004 DIODE 1 D1113 B0BC9R000008 DIODE 1 D1115 B0AADM000003 DIODE 1 D1130 B0AADM000003 DIODE 1 D1131 MAZ73000BC DIODE 1 D1131 MAZ73000BC DIODE 1 D1132 B0AACK000004 DIODE 1 D1133 B0BC010A0007 DIODE 1 D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1				t . t	
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D1112 B0AACK000004 DIODE 1 D1113 B0BC9R00008 DIODE 1 D1115 B0AADM000003 DIODE 1 D1130 B0AADM000003 DIODE 1 D1131 MAZ73000BC DIODE 1 D1132 B0AACK000004 DIODE 1 D1133 B0BC010A0007 DIODE 1 D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1110	B0AADM000003	DIODE	1	
D1113 B0BC9R00008 DIODE 1 D1115 B0AADM000003 DIODE 1 D1130 B0AADM000003 DIODE 1 D1131 MAZ73000BC DIODE 1 D1132 B0AACK000004 DIODE 1 D1133 B0BC010A0007 DIODE 1 D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1111	MAZ73000BC	DIODE	1	
D1115 B0AADM000003 DIODE 1 D1130 B0AADM000003 DIODE 1 D1131 MAZ73000BC DIODE 1 D1132 B0AACK000004 DIODE 1 D1133 B0BC010A0007 DIODE 1 D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1112	B0AACK000004	DIODE	1	
D1130 B0AADM000003 DIODE 1 D1131 MAZ73000BC DIODE 1 D1132 B0AACK000004 DIODE 1 D1133 B0BC010A0007 DIODE 1 D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1113	B0BC9R000008	DIODE	1	
D1131 MAZ73000BC DIODE 1 D1132 B0AACK000004 DIODE 1 D1133 B0BC010A0007 DIODE 1 D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1115	B0AADM000003	DIODE	1	
D1132 B0AACK000004 DIODE 1 D1133 B0BC010A0007 DIODE 1 D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1130	B0AADM000003	DIODE	1	
D1133 B0BC010A0007 DIODE 1 D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1131	MAZ73000BC	DIODE	1	
D1200 B0JCNG000003 DIODE 1 D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1132	B0AACK000004	DIODE	1	
D1201 B0JCNG000003 DIODE 1 D1300 B0JAME000025 DIODE 1	D1133	B0BC010A0007	DIODE	1	
D1300 B0JAME000025 DIODE 1	D1200	B0JCNG00003	DIODE	1	
	D1201	B0JCNG000003	DIODE	1	
D1301 D0 TAME00003E D7000	D1300	B0JAME000025	DIODE	1	
DI301  BUJAMEUUUUZ3  DIODE   1	D1301	B0JAME000025	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D1350	MA2J11100L	DIODE	1	
D1350	MA2J11100L	DIODE	1	
D1400	B0JAME000025	DIODE	1	
D1410	B0AADM000003	DIODE	1	
D1420	B0JAQE000004	DIODE	1	
D1430	B0JAQE000004	DIODE	1	
D1432	B0JCPD000021	DIODE	1	
D1440	B0JCNG000003	DIODE	1	
D1450	B0AADM000003	DIODE	1	
D7801	B0BA03000015	DIODE	1	
D31001	B0AACK000004	DIODE	1	
D31002	B0AACK000004	DIODE	1	
D31003	MA2C700A0F	DIODE	1	
DZ1101	J0LY00000045	SERGE ABSORBER	1	Δ
F1101	K5D202BK0005	FUSE	1	Δ
TT T 201	T0D450433006		_	
FL7301	J0B4504AA026	FL DISPLAY	1	
TG1 001	GODDAYYOO210	TO	1	
IC1001 IC1110	C0DBAYY00219 C0DACZH00030	IC	1	
IC1110	CODACZHO0030	IC	1	
IC1200	CODACZHOOO30	IC	1	
IC1350	CODAETHOOOO2	IC	1	
IC1370	CODAETTOOO21	IC	1	
IC1400	COCBCADO0088	IC	1	
IC1430	C0DAGYY00030	IC	1	
IC7301	C1AB00002666	IC	1	
IC7801	C0CBCDC00052	IC	1	
IC31001	C0DBGHF00001	IC	1	
IC31002	C0CBCBD00048	IC	1	
IC31004	C0CBCDC00052	IC	1	
IC37001	C0ABBA000146	IC	1	
IC45001	C0DBAHD00013	IC	1	
IP1001	K5H1022A0011	IC PROTECTOR	1	Δ
IP1400	K5H1022A0011	IC PROTECTOR	1	Δ
IP1410	K5H1022A0011	IC PROTECTOR	1	$\triangle$
IP39001	K5H2512A0010	IC PROTECTOR	1	$\triangle$
K7801	ERJ3GEY0R00V	1/10W 0	1	
L1001	G0A100HA0023	COIL 10UH	1	
L1002	G0A150ZA0041	COIL 15UH	1	
L1101	G0B123E00001	COIL	1	$\triangle$
L1102	G0B123E00001	COIL	1	Δ
L1200	G0A100H00025	COIL 10UH	1	
L1201	G0A100HA0023	COIL 10UH	1	
L1300	G0A100HA0023	COIL 10UH	1	
L1420	G0A100HA0023	COIL 10UH	1	
L1430	G0A100HA0023	COIL 10UH	1	
L1440	G0A100HA0023	COIL 10UH	1	
L37101	G0A220GA0026	COIL 22UH	1	
L37102	G0A100HA0023	COIL 10UH	1	
T D1 001	TO TITGO 0 0 0 0 4 8	ETI WED	1	
LB1001	J0JHC0000048	FILTER	1	
LB1103 LB1110	ERJ6GEY0R00V ERJ6GEY0R00V	1/8W 0 1/8W 0	1	
LB1130	ERJ6GEY0R00V	1/8W 0	1	
LB1400	J0JHC0000048	FILTER	1	
LB1410	J0JHC0000048	FILTER	1	
LB1450	J0JHC0000048	FILTER	1	
LB7801	J0JCC0000103	COIL	1	
LB7802	J0JCC0000103	COIL	1	
LB7803	J0JHC0000032	COIL	1	
LB7804	J0JCC0000103	COIL	1	
LB7805	J0JCC0000103	COIL	1	
LB7806	J0JHC0000032	COIL	1	
LB7807	J0JCC0000103	COIL	1	
LB7808	ERJ3GEY0R00V	1/10W 0	1	
LB7809	J0JHC0000032	COIL	1	
LB7810	J0JCC0000103	COIL	1	
	1	1		1

Ref. No.	Part No.	Part Name &	Pcs	Remarks
Ker. No.	raic No.	Description	res	Remarks
LB7811	J0JCC0000103	COIL	1	
LB7812	ERJ3GEY0R00V	1/10W 0	1	
LB7813	ERJ3GEY0R00V	1/10W 0	1	
LB7814	J0JHC0000032	COIL	1	
LB7815 LB7816	ERJ3GEY0R00V	1/10W 0	1	
LB34001	ERJ3GEY0R00V ERJ3GEY0R00V	1/10W 0 1/10W 0	1	
LB37101	ERJ3GEY0R00V	1/10W 0	1	
LB37103	ERJ3GEY0R00V	1/10W 0	1	
LB37105	ERJ3GEY0R00V	1/10W 0	1	
LB37109	ERJ3GEY0R00V	1/10W 0	1	
LB37110	ERJ3GEY0R00V	1/10W 0	1	
LB37111	ERJ3GEY0R00V	1/10W 0	1	
LB37112	ERJ3GEY0R00V	1/10W 0	1	
P1101	K2AB2B000007	AC INLET	1	<u> </u>
P1201	K1KA04AA0180	CONNECTOR (4P)	1	
P31901 P31902	K1KA15A00118 K1KA19A00007	CONNECTOR (15P)	1	
P31902 P31903	K1KA19A00007	CONNECTOR(19P) CONNECTOR(19P)	1	
P31904	K1KA19A00007	CONNECTOR (19P)	1	
P31905	K1KA07A00083	CONNECTOR (7P)	1	
P31906	K1KB10B00053	CONNECTOR (10P)	1	
P37001	K1KA03AA0180	CONNECTOR (3P)	1	
P37101	K1KA88A00002	CONNECTOR (88P)	1	
Q1001	B1DHDD000029	TRANSISTOR	1	
Q1110	B3PBA0000454	TRANSISTOR	1	$\triangle$
Q1130	B3PBA0000454	TRANSISTOR	1	Δ
Q1350	2SD0601ASL	TRANSISTOR	1	
Q7801	2SB1218A0L	TRANSISTOR	1	
Q7802	2SD1819A0L	TRANSISTOR	1	
Q37001	2SD0874A0L	TRANSISTOR	1	
OP1 350	UNR521100L	TRANSISTOR	1	
QR1350 QR7801	UNR511200L	TRANSISTOR	1	
QR31001	UNR521100L	TRANSISTOR	1	
QR31002	UNR521300L	TRANSISTOR	1	
R1001	ERJ3GEYJ333V	1/10W 33K	1	
R1002	D1BDR039A101	1/3W 0.039	1	
R1003	ERJ3GEY0R00V	1/10W 0	1	
R1004	ERJ3RBD133V	1/16W 13K	1	
R1005	ERJ3RBD682V	1/16W 6.8K	1	
R1110	ERJ6GEYJ330V	1/8W 33	1	
R1111 R1113	ERJ6GEYJ330V ERJ3GEYJ684V	1/8W 33 1/10W 680K	1	
R1113	ERJ3RBD363V	1/16W 36K	1	
R1115	ERJ3RBD122V	1/16W 1.2K	1	
R1116	ERJ3GEYJ153V	1/10W 15K	1	
R1117	ERJ3RBD471V	1/16W 470	1	
R1118	ERJ3RBD682V	1/16W 6.8K	1	
R1130	ERJ6GEYJ100V	1/8W 10	1	
R1131	ERJ6GEYJ100V	1/8W 10	1	
R1132	ERJ3GEYJ103V	1/10W 10K	1	
R1133	ERJ3GEYJ123V	1/10W 12K	1	
R1134	ERJ3RBD203V	1/16W 20K	1	
R1135	ERJ3RBD102V	1/16W 1K	1	
R1138	ERJ3RBD201V	1/16W 200	1	
R1139	ERJ3RBD562V	1/16W 5.6K	1	
R1200 R1201	ERJ3RBD104V ERJ3RBD103V	1/16W 100K 1/16W 10K	1	
R1201 R1202	ERJ3RBD103V ERJ3RBD113V	1/16W 10K	1	
_ <del></del>	ERJ3GEYJ391V	1/10W 390	1	
R1350	ERJ3GEYJ102V	1/10W 1K	1	
R1350 R1351	ERO JGETOTOZ V	<del></del>	1	
	ERJ3GEYJ682V	1/10W 6.8K		
R1351		1/10W 6.8K 1/16W 2.4K	1	
R1351 R1353	ERJ3GEYJ682V		+	
R1351 R1353 R1354	ERJ3GEYJ682V ERJ3RBD242V	1/16W 2.4K	1	
R1351 R1353 R1354 R1355	ERJ3GEYJ682V ERJ3RBD242V ERJ3RBD151V	1/16W 2.4K 1/16W 150 1/16W 47 1/16W 2.4K	1	
R1351 R1353 R1354 R1355 R1356 R1358 R1361	ERJ3GEYJ682V ERJ3RBD242V ERJ3RBD151V ERJ3RED470V ERJ3RBD242V ERJ3GEYJ332V	1/16W 2.4K 1/16W 150 1/16W 47 1/16W 2.4K 1/10W 3.3K	1 1 1 1	
R1351 R1353 R1354 R1355 R1356 R1358	ERJ3GEYJ682V ERJ3RBD242V ERJ3RBD151V ERJ3RED470V ERJ3RBD242V	1/16W 2.4K 1/16W 150 1/16W 47 1/16W 2.4K	1 1 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1370	ERJ3GEYJ391V	1/10W 390	1	
R1371	ERJ3GEYJ102V	1/10W 1K	1	
R1372	ERJ3GEYJ223V	1/10W 22K	1	
R1373	ERJ3GEYJ332V	1/10W 3.3K	1	
R1374	ERJ3RBD242V	1/16W 2.4K	1	
R1375	ERJ3RBD821V	1/16W 820	1	
R1376	ERJ3RBD101V	1/16W 100	1	
R1378 R1410	ERJ3RBD242V	1/16W 2.4K	1	
R7301	ERJ3GEYJ101V	1/10W 100	1	
R7301	ERJ3GEYJ101V	1/10W 100	1	
R7304	ERJ3GEY0R00V	1/10W 0	1	
R7305	ERJ3GEY0R00V	1/10W 0	1	
R7306	ERJ3GEYJ472V	1/10W 4.7K	1	
R7307	ERJ3GEYJ102V	1/10W 1K	1	
R7308	ERJ3GEY0R00V	1/10W 0	1	
R7801	ERJ3GEYJ681V	1/10W 680	1	
R7802	ERJ3GEYJ104V	1/10W 100K	1	
R7803	ERDS2TJ102T	1/4W 1K	1	
R7804	ERJ3GEY0R00V	1/10W 0	1	
R7805	ERJ3GEY0R00V	1/10W 0	1	
R31001		1/10W 22K	1	
R31002		1/10W 10K	1	
R31003	ERJ3GEYJ101V	1/10W 100	1	
R31004	ERJ3GEYJ183V	1/10W 18K	1	
R31005	ERJ3GEYJ221V	1/10W 220	1	
R31007	ERJ3GEYJ182V	1/10W 1.8K	1	
R31008 R31009	ERJ3GEYJ822V ERJ3GEYJ332V	1/10W 8.2K	1	
R31009	ERJ3GEYJ103V	1/10W 3.3K 1/10W 10K	1	
R34001	ERJ3GEY0R00V	1/10W 0	1	
R37001	ERJ3GEYJ821V	1/10W 820	1	
R37002	ERJ3GEY0R00V	1/10W 0	1	
R37003	ERJ3GEYJ303V	1/10W 30K	1	
R37004	ERJ3GEYJ153V	1/10W 15K	1	
R37008	ERJ3GEY0R00V	1/10W 0	1	
R37503	ERJ3GEYJ473V	1/10W 47K	1	
R37504	ERJ3GEYJ473V	1/10W 47K	1	
R45012	D0HB622ZA002	1/16W 6.2K	1	
R45013	D0HB622ZA002	1/16W 6.2K	1	
R45014	D0HB392ZA002	1/16W 3.9K	1	
R45015	D0HB392ZA002	1/16W 3.9K	1	
m1110	G4707000001	ED LUGEODUED		$\wedge$
T1110 T1130		TRANSFORMER	1	
11130	G4D2A0000282	TRANSFORMER		
TU7801	ENG56E01G1F	TUNER, VHF/UHF	1	
107001		1011211, 1111, 1111		
VA1101	ERZVA5V471	VARISTOR	1	Δ
VA1102	ERZVA5V471	VARISTOR	1	Δ
W201	ERJ3GEY0R00V	1/10W 0	1	
W202	ERJ3GEY0R00V	1/10W 0	1	
W203	ERJ6GEY0R00V	1/8W 0	1	
W204	ERJ3GEY0R00V	1/10W 0	1	
W205	ERJ3GEY0R00V	1/10W 0	1	
W206	ERJ3GEY0R00V	1/10W 0	1	
W208	ERJ6GEY0R00V	1/8W 0	1	
W209	ERJ3GEY0R00V	1/10W 0	1	
W210 W211	ERJ6GEY0R00V	1/8W 0	1	
W211 W213	ERJ3GEY0R00V ERJ3GEY0R00V	1/10W 0 1/10W 0	1	
W213 W214	ERJ3GEY0R00V	1/10W 0	1	
W215	ERJ3GEY0R00V	1/10W 0	1	
W216	ERJ3GEY0R00V	1/10W 0	1	
W217	ERJ6GEY0R00V	1/8W 0	1	
W218	ERJ3GEY0R00V	1/10W 0	1	
W219	ERJ6GEY0R00V	1/8W 0	1	
W223	ERJ3GEY0R00V	1/10W 0	1	
ZA1101	EYF52BCY	FUSE HOLDER	1	
ZA1102	EYF52BCY	FUSE HOLDER	1	
L	l			

Ref. No.		
ZJ37002 K9ZZ00001279 EARTH PLATE 1 ZJ37003 K9ZZ00001279 EARTH PLATE 1 ZJ37004 K9ZZ00001279 EARTH PLATE 1  CASING/ACCESSORY 1 /PACKING 1  L6FALCCE0020 FAN MOTOR 1 Z RGR0374A-B2 REAR PANEL 1 (EZ47V) RGR0374A-D REAR PANEL 1 (EZ47SV) RHD30111-3 SCREW 17  KRHD30119-L SCREW 12 SRHD30111-3 SCREW 12 SRHD30111-3 SCREW 12 SRHD30111-3 SCREW 14 FOOT RUBBER 2 RRA0137-K FOOT RUBBER 2 RRA0137-K FOOT RUBBER 2 RRA0137-K FOOT RUBBER 1 RRA0138-K FOOT 1 RRA02060 REAR ANGLE 1 RRX0298 PCB SPACER 1 RRX0355 MECHA SPACER(F) 1 RRX0355 MECHA SPACER(F) 1 RRX0355 MECHA SPACER(F) 1 RRX0390 PCB SUPPORT 1 FRYP1369B-K FRONT PANEL 1 (EZ47V) ASS'Y 1 RYP1369B-K FRO	Rema	arks
ZJ37003		
CASING/ACCESORY 1   CASIN		
2 RGR0374A-B2 REAR PANEL 1 (EZ47V) 2 RGR0374A-D REAR PANEL 1 (EZ475V) 3 RHD30111-3 SCREW 12 5 RHD30148 SCREW 12 5 RHD30148 SCREW 3 3 7 RKA0137-K FOOT RUBBER 2 8 RKA0178-X FOOT U2 8 RKA0137-K FOOT RUBBER 1 10 RMA2044 DVD ANGLE 1 11 RMX0298 PCB SPACER 1 11 RMX0298 PCB SPACER 1 12 RMX0354 MECHA SPACER(F) 1 13 RMX0355 MECHA SPACER(F) 1 14 RMX0390 PCB SUPPORT 1 15 RMX0891 INSULATION SHEET 1 16 RHD26045-J SCREW 3 17 RYP1369B-K FRONT PANEL 1 (EZ47V) ASS'Y 1 17 RYP1369B-K FRONT PANEL 1 (EZ47SV) ASS'Y 1 17 RYP1369B-K FRONT DANEL 1 (EZ47SV) ASS'Y 1 17-1 RGK2065-K FL WINDOW 1 (EZ47SV) ASS'Y 1 17-2 RGU2475-S DUBBING BUTTON 1 (EZ47SV) 17-5 RKF0784A-K TRAY DOOR 1 (EZ47SV) 17-6 RMB0870 TRAY SPRING 1 (EZ47SV) 17-7 RKF07683A-K BLINDER PANEL 1 (EZ47SV) 17-8 VMB2521 BLINDER PANEL 1 (EZ47SV) 18 VEELD23 WIRE WITH 1 (EX47SV) 20 VKC0295 HOLDER 2 (EXAMBLE) 1 21 VWJ1728-RW FFC(6P) 1 (EXAMBLE) 1 22 VWJ1933-2 FFC(40P) 1 (EXAMBLE) 1 23 VWJ1934 FFC(10P) 1 (EXAMBLE) 1 24 VWJ1950 FFC(7P) 1 (EXAMBLE) 1 25 KSM3+4FJ SCREW 2 (EXAMBLE) 1 (RTL) 25 KSM3+4FJ SCREW 1 (EXAMBLE) 1 (RTL) 26 RMC069 EARTH SPRING 1 (RTL) 27 RRC069 EARTH SPRING 1 (RTL) 28 RHD30113-1K SCREW 1 (RTL) 30 RKM0572-K TOP COVER 1 (ATL) 31 VEP637AA MAIN P.C.B. 1 (RTL) 32 VEP06G37A MAIN P.C.B. 1 (RTL) 34 RFK879142DP DIGITAL IF (RTL) 35 VEP04915A FRONT (I.P.C.B. 1 (RTL) 36 VEP07B00A FRONT (I.P.C.B. 1 (RTL) 37 VEP07B00A FRONT (I.P.C.B. 1 (RTL) 38 VEXPOSED (I.P.C.B. 1 (RTL) 39 VEP06G37A MAIN P.C.B. 1 (RTL) 40 RHD26054 SCREW 1 (RTL) 41 RM0885 SPACER 1 (RTL) 42 RMX0398 FFC SPACER 1 (RTL) 42 RMX0398 FFC SPACER 1 (RTL) 43 VXY1961 DVD DRIVE UNIT 1 (RTL) 44 RMX0398 FFC SPACER 1 (RTL) 45 VEM0800T (APSTAN MOOR 1 (RTL) 46 RMX0398 FFC SPACER 1 (RTL) 47 RMX0398 FFC SPACER 1 (RTL) 48 RMX0398 FFC SPACER 1 (RTL) 49 VMD1431 TENSION ARM BOSH 1		
22         RGR0374A-B2         REAR PANEL         1         (EZ47V)           2         RGR0374A-D         REAR PANEL         1         (EZ475V)           3         RHD30111-3         SCREW         12           4         RHD30148         SCREW         1           6         RHDC0023         SCREW         3           7         RKA0137-K         FOOT RUBBER         2           8         RKA0178-X         FOOT         2           9         RM2044         DVD ANGLE         1           10         RMA0060         REAR ANGLE         1           11         RMX0354         MECHA SPACER(F)         1           12         RMX0355         MECHA SPACER(F)         1           13         RMX0395         PCB SUPPORT         1           14         RMX0390         PCB SUPPORT         1           15         RMZ0891         INSULATION SHEET         1           16         RHD26045-J         SCREW         3           17         RYP1369E-K         FRONT PANEL         1           16         RHD26045-J         SCREW         1           17-1         RGK2065-K         FL WINDOW         1<		
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5         RHD30148         SCREW         3           6         RHDC0023         SCREW         3           7         RKA0137-K         FOOT MUBBER         2           8         RKA0178-X         FOOT         2           9         RMA2044         DVD ANGLE         1           10         RM2060         RBAR ANGLE         1           11         RMX0298         PCB SPACER         1           12         RMX0355         MECHA SPACER(R)         1           14         RMX0390         PCB SUPPORT         1           15         RM20891         INSULATION SHEET         1           16         RHD26045-J         SCREW         3           17         RYP1369B-K         FRONT PANEL         1         (EZ475V)           ASS'Y 1         1         (EZ475V)         ASS'Y 1         (EZ475V)           17-         RYP1369B-K         FRONT PANEL         1         (EZ475V)           18         RYP1369B-K         FRONT PANEL         1         (EZ475V)           17-7         RYP1369B-K         FRONT PANEL         1         (EZ475V)           17-7         RYP1369E-K         FL WINDOW         1         (EZ4		
66         RHDC0023         SCREW         3           7         RKA0137-K         FOOT RUBBER         2           8         RKA0178-X         FOOT         2           9         RMA2044         DVD ANGLE         1           10         RMA2060         REAR ANGLE         1           11         RMX0354         MECHA SPACER(R)         1           12         RMX0354         MECHA SPACER(R)         1           13         RMX0390         PCB SUPPORT         1           14         RMX0390         PCB SUPPORT         1           15         RM20891         INSULATION SHEET         1           16         RHD26045-J         SCREW         3           17         RYP1369B-K         FRONT PANEL         1           18         FRONT PANEL         1         (EZ475V)           17         RYP1369B-K         FRONT PANEL         1         (EZ475V)           17         RYP1369B-K         FRONT PANEL         1         (EZ475V)           17-1         RGU2475-S         DUBBING BUTTON         1         (EZ475V)           17-2         RGU2475-S         DUBBING BUTTON         1         (EZ475V)		
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P.C.B.	Δ	
32 VEP06G37A MAIN F.C.B. 1 (RTL)  33 VEP09147A DIGITAL IF P.C.B.  34 RFKB79142DP DIGITAL P.C.B. 1 (RTL)  35 VEP04915A FRONT(L)P.C.B. 1 (RTL)  36 VEP07B00A FRONT(R)P.C.B. 1 (RTL)  40 RHD26054 SCREW 1	RTL)	
33 VEP09147A DIGITAL IF P.C.B. 1 (RTL)  34 RFKB79142DP DIGITAL P.C.B. 1 (RTL)  35 VEP04915A FRONT(L)P.C.B. 1 (RTL)  36 VEP07B00A FRONT(R)P.C.B. 1 (RTL)  40 RHD26054 SCREW 1	RTL)	
34     RFKB79142DP     DIGITAL P.C.B.     1     (RTL)       35     VEP04915A     FRONT(L)P.C.B.     1     (RTL)       36     VEP07B00A     FRONT(R)P.C.B.     1     (RTL)       40     RHD26054     SCREW     1     1       41     RMN0885     SPACER     1     1       42     RMX0398     FFC SPACER     1     (RTL)       43     VXY1961     DVD DRIVE UNIT     1     (RTL)       101     VEG1697KIT     RDD CYLINDER ASS'Y     1     1       102     VEM0800T     CAPSTAN MOTOR     1     1       103     L1AG00000011     FE HEAD ASS'Y     1     1       104     VDB1431     TENSION ARM BOSH     1		
35		
36 VEP07B00A FRONT(R)P.C.B. 1 (RTL) 40 RHD26054 SCREW 1 41 RMN0885 SPACER 1 42 RMX0398 FFC SPACER 1 43 VXY1961 DVD DRIVE UNIT 1 (RTL) 101 VEG1697KIT RDD CYLINDER 1 ASS'Y 101-1 VMD5464 FPC HOLDER 1 102 VEM0800T CAPSTAN MOTOR 1 103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1		
40 RHD26054 SCREW 1 41 RMN0885 SPACER 1 42 RMX0398 FFC SPACER 1 43 VXY1961 DVD DRIVE UNIT 1 (RTL) 101 VEG1697KIT RDD CYLINDER 1 ASS'Y 101-1 VMD5464 FPC HOLDER 1 102 VEM0800T CAPSTAN MOTOR 1 103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1		
41 RMN0885 SPACER 1 42 RMX0398 FFC SPACER 1 43 VXY1961 DVD DRIVE UNIT 1 (RTL) 101 VEG1697KIT RDD CYLINDER 1 ASS'Y 101-1 VMD5464 FPC HOLDER 1 102 VEM0800T CAPSTAN MOTOR 1 103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1	RTL)	
42 RMX0398 FFC SPACER 1 43 VXY1961 DVD DRIVE UNIT 1 (RTL) 101 VEG1697KIT RDD CYLINDER 1 ASS'Y 101-1 VMD5464 FPC HOLDER 1 102 VEM0800T CAPSTAN MOTOR 1 103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1		
43 VXY1961 DVD DRIVE UNIT 1 (RTL)  101 VEG1697KIT RDD CYLINDER 1 ASS'Y  101-1 VMD5464 FPC HOLDER 1 102 VEM0800T CAPSTAN MOTOR 1 103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1		
101 VEG1697KIT RDD CYLINDER 1 ASS'Y 101-1 VMD5464 FPC HOLDER 1 102 VEM0800T CAPSTAN MOTOR 1 103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1		
ASS'Y  101-1 VMD5464 FPC HOLDER 1  102 VEM0800T CAPSTAN MOTOR 1  103 L1AG00000011 FE HEAD ASS'Y 1  104 VDB1431 TENSION ARM BOSH 1	RTL)	
102 VEM0800T CAPSTAN MOTOR 1 103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1		
103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1		
103 L1AG00000011 FE HEAD ASS'Y 1 104 VDB1431 TENSION ARM BOSH 1		
104 VDB1431 TENSION ARM BOSH 1		
GEAR		
106 VDG1685 MAIN CAM GEAR 1		
107 VDG1512 IDLER GEAR 2		
108 VDG1514 CHANGE GEAR 1		
109 VDR0372A REEL TABLE 2		
110 VDV0391 CAPSTAN BELT 1		

Ref. No. 111 112	Part No. VEM0797 VMB3550A	Part Name & Description LOADING MOTOR	Pcs 1	Remarks
112				
	VMB3550A	GUANGING GEAD		
		CHANGING GEAR SPRING	1	
113	VMD4987	WORM SHAFT HOLDER	1	
114	VMD5466	OPENER PIECE	1	
115	VMD4253	LED PRISM	1	
116	VML3934	MAIN LEVER	1	
117	VML3933	PINCH CHARGE ARM	1	
118	VML3632	IDLER ARM	1	
119	VMX3092	P4 CAP	1	
120	VXA7105	S SHAFT HOLDER	1	
121	VXA7106	T SHAFT HOLDER	1	
122	L1AE00000044	AC HEAD ASS'Y	1	
122-1	VHD1066-2	SCREW	2	
122-2	VHD1185	SCREW	1	
124	VXL3107	S LOADING ARM	1	
125	VXL3108	T LOADING ARM	1	
126	VXL3109-7	PINCH ARM	1	
127	VXL3110	P5 ARM	1	
128	VXL3111-1	TENSION ARM	1	
129	VXL3252	S BRAKE ARM	1	
130	VXL3343	T BRAKE ARM	1	
130-1	VMB3548	T BRAKE SPRING	1	
131	VXL3124	CHANGING LEVER	1	
132	VXP2133	CENTER CLUTH	1	
133	VXP2168	TORQUE CLUTCH	1	
134	VMA0L25	TOP PLATE	1	
135	VMD5468	SIDE PLATE(L)	1	
136	VMD5469	SIDE PLATE(R)	1	
137	VXA8265	CASSETTE HOLDER ASS'Y	1	
138	VXL3160	MAIN SHAFT	1	
139	VDG1684	SECTOR GEAR	1	
141	VML3706	OPENER LEVER	1	
142	VHD1044-1	SCREW	1	
143	XYN3+C4FJ	SCREW	1	
144	XTN26+7JFJ	SCREW	3	
145	XTV26+5FFJ	SCREW	2	
146	XTV26+8FFJ	SCREW	2	
148	VHD1117-1	SCREW	3	
149	VMX2208	WASHER	1	
150	VMX3114	WASHER	1	
151	VMX2699	WASHER	1	
152	VMX3196	WASHER	1	
A1	EUR7659T80	REMOTE CONTROL ASS'Y	1	
A1-1	UR76EC5903A	BATTERY COVER	1	
A2	K2CB2CB00018	AC CORD	1	Δ
A3	K2KA6BA00004	AV CORD	1	
A4	K2KZ2BA00001	RF COAXIAL CABLE	1	
A5	RPQF0220-2	ACCESSORY BOX	1	(EZ47V)
A5	RPQF0254	ACCESSORY BOX	1	(EZ475V)
A6	RPFC0031-B	POLYETHYLENE BAG	1	,
A7	RQT8853-P	OPERATING	1	(IA) <u></u>
A8	K1HA19DA0007	INSTRUCTIONS HDMI CABLE	1	(EZ475V)
-				,
PC1	RPG8160	PACKING CASE	1	(EZ47V)
PC1	RPG8313	PACKING CASE	1	(EZ475V)
	RPN1965A-1	CUSHION(A)	1	
PC2			. –	
PC2 PC3	RPN1965B-1	CUSHION(B)	1	
	i	CUSHION(B) POLYETHYLENE BAG	1	
PC3	RPN1965B-1			